

Batteries

Electrical & Power

Associated products

Rapid

30V Power
Supply 2.5A

Only
£77.14



Page 831

TruConnect

Standard
Crocodile Clips

From
only
£0.06



Page 772



Joule Thief Kit

Only
£2.09



Page 214

VEX

VEX Battery
Extension Cable

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£6.99



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RVFM

Crocodile Leads

From only **£2.15**



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VOLTCRAFT

22.5W Bench
Power
Supply

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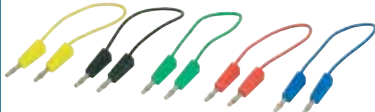


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TruConnect

500mm Stackable
4mm Test Leads

From only **£0.487**



Page 770

Rapid

Rapid Equipment
Wire 7/0.2mm

From
only
£4.20



Page 726

RVFM

3V Solar
Panel

Only **£5.22**



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TruConnect

5mm
Terminal Blocks

From
only
£0.043



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CHOOSING THE RIGHT BATTERY

FOR YOUR APPLICATION

Batteries come in many shapes and sizes but there are also a number of different types of chemistry as well. Which type you should choose largely depends on the application.

Here are a few of the more common types you can buy:

Primary Cells

Primary cells and batteries are designed to be used once and then discarded. They cannot generally be recharged.

Zinc Carbon/Zinc Chloride

Zinc batteries get their name from the zinc chloride paste used as an electrolyte.

These low cost batteries are ideal for low current devices and projects such as LEDs, basic electronics, remote controls etc.

Alkaline

The alkaline battery gets its name from the potassium hydroxide which is used as an electrolyte.

Alkaline batteries have a higher capacity than their Zinc Carbon/Zinc Chloride equivalents (approximately 5 times) and so last a lot longer. They are ideally suited to applications that draw larger currents such as projects that use motors, bright lighting, heating elements etc. They cost slightly more than zinc carbon/chloride versions.

Lithium Iron Disulfide

These batteries have a higher energy density than alkaline equivalents - as much as 3 times. They also have an extremely low self discharge rate which gives them a very long shelf life. They work better at low temperatures than alkaline batteries, although are considerably more expensive.

Lithium Manganese Dioxide

This is the most common chemistry for the "coin cell" type batteries. They have a high energy density and are often used in low power devices that run for long periods of time such as stop watches, memory backups etc. They are great for doing simple LED projects and are used in our e-textiles projects.



Rechargeable Cells

Rechargeable cells and batteries are designed to be used over and over. They are usually more expensive than primary cells but as they can be used many times, they offer a more cost effective solution over time. They are often considered more environmentally friendly than primary batteries and there is less waste.

Nickel-Metal Hydride

The most common type of consumer rechargeable battery, these replaced the now obsolete Nickel-Cadmium cells. They usually come in standard sizes and are interchangeable with alkaline cells. However, pay attention to the voltage! Ni-MH cells are 1.2V or 8.4V for a PP3 compared with 1.5V and 9V for alkaline equivalents.

Lithium Polymer

These batteries use a polymer casing to house a lithium-ion cell. They are lightweight with very high capacities and discharge currents making them ideal for radio controlled models, robotics etc. Battery packs need to be charged with a special charger which keeps an even state of charge across all the cells in the pack.

Lead Acid

Lead acid is one of the oldest technologies of rechargeable battery. They are able to supply large currents and are often found in vehicles to provide the huge current needed for turning an engine over with a starter motor. Smaller versions are found in small electric vehicles, golf buggies and electric wheel chairs. They are ideal for storing backup power and heavy duty applications such as large heavy robots.

Battery Tester

VOLTCRAFT®

MS 228 A Battery Tester

The Voltcraft MS 228A battery tester makes it extremely easy to test all the most popular alkaline and rechargeable batteries.

- Tests AAA, AA, C, D, 9V (PP3) batteries as well as button cells
- No power supply required
- Dimensions: 90(L) x 43(W) x 25(H)mm
- Weight: 40g



Technical specification

51-5902	
Dimensions	90(L) x 43(W) x 25(H)mm
Display type	Analogue
Suitable for	AAA, AA, C, D, 9V (PP3) batteries as well as button cells
Weight	40g

Type	Order code	1+
Battery tester	51-5902	2.58

525553



Smart Battery Tester with LCD Display

An easy to use professional battery tester for a wide range of batteries. The intelligent battery tester incorporates an energy check LCD for both primary non-rechargeable and secondary rechargeable batteries.

- Accurately displays the available capacity of the connected battery in 10% steps on the LCD screen
- Shows the real voltage level of the battery accurate to 2 decimal places
- Incorporates the latest in CAM-technology (Computer Aided Measurement)
- One of the fastest and accurate battery tester on the market
- Producing a measurement reading within 3 seconds of connecting the battery
- Able to the following batteries:
 - Lithium button cells 3V: CR1025, CR1216, CR1220, CR1616, CR1620, CR2016, CR2025, CR2032, CR2430, CR2450
 - Lithium photo batteries: CR2, CR123A, CRP-2/2CR5
 - Alkaline button cells: LR43, LR44, LR45, LR48, LR54, LR55, LR59, LR58, LR60, LR66
 - Zinc air button cells: V675, V13, V312
 - Alkaline batteries: A23(12V), AAA, AA, C, D, 9V
 - NiCd and NiMH cells: AAA, AA, C and D



Technical specification

System:	Battery tester for a range of primary and rechargeable cells
Type:	Tester
Size:	1.2V, 1.44V, 1.5V, 3V, 6V, 9V, 12V
Voltage:	Alkaline, NiCd, NiMH, Zinc Air, Lithium
Capacity:	Indicates remaining capacity in 10% steps.
Dimension:	10mm x 34mm
Height:	195mm
Weight:	390g

Type	Order code	1+
Smart battery tester	18-2530	28.09

073864

VOLTCRAFT®

MS-229 LCD Battery Tester

This Voltcraft battery tester is intended for testing common batteries within a voltage range of 1.2V to 12V.

- For all standard round cell batteries and button cell batteries of 1.2 to 12V
- Exact display/exposure of the remaining capacity in % for rechargeable batteries and alkaline batteries
- Supplied with 2x button cell batteries and user manual



Technical specification

51-5910	
Dimensions	133(L) x 33(W) x 22(H)mm
Display type	LCD
Load current	5 to 40 mA
Power supply	2 x LR44
Suitable for	1.2 to 12V batteries
Weight	120g including box and packaging

Type	Order code	1+
Battery tester	51-5910	5.10

525554

VOLTCRAFT®

FY-64 Analogue Lead Acid Battery Tester, 6V, 12V

The Voltcraft FY-64 Analogue Lead Acid Battery Tester is the perfect tester for quickly checking 6V and 12V lead acid batteries. With regular multimeters, it can be tricky to determine the remaining capacity in lead/acid gel batteries under no load.

This battery tester loads the battery at a high current and measures the battery voltage under load. Batteries in poor condition will register a drop when measured under load, and so they can be identified within seconds. This portable tester is an indispensable tool for workshops, solar power systems, camping and in many other applications.

- Tests 6V or 12V lead acid batteries under load
- Analogue readout indicating remaining capacity
- 100A test current for 12V batteries
- 45A test current for 6V batteries
- Suitable for batteries from 30Ah (12V) and 15Ah (6V)



Technical specification

51-5912	
Battery voltage	6 to 12V
Dimensions	295(L) x 180(W) x 60(H)mm
Discharge current	45/100A
For rechargeable batteries	6/12 V
Max. charging current	-
Recommended battery capacity	>15/30Ah
Test length	2 to 5 secs

Type	Order code	1+
Battery tester	51-5912	26.58

525556

VOLTCRAFT®

BT-3 12V Digital Lead Acid Battery Tester

The Voltcraft BT-3 12V digital lead acid battery tester is ideal for quickly and simply measuring the remaining power in 12V vehicle and solar batteries.

This battery tester loads the battery at high current and measures the battery voltage under load. Batteries in poor condition will drop when measured under load, and can thus be identified within seconds. The whole test process is automatic, i.e. you simply start the test process and the battery tester shows the measurement result on the digital display after approx. 10 seconds.

This prevents overloading of the battery due to excessive testing times. For accurate analysis, the cold start current value of the battery can be adjusted. As an extra function, the generator and the starter can be checked. This portable tester is an indispensable tool for workshops, solar power systems, camping and many other applications.

- For 12V Batteries from 30Ah
- Automatic test run/set up



Technical specification

51-5913	
Battery voltage	12V
Dimensions	295(L) x 160(W) x 85(H)mm
Discharge current	100A
For rechargeable batteries	12V
Max. charging current	-
Recommended battery capacity	>30Ah
Test length	10 secs

Type	Order code	1+
Battery tester	51-5913	39.67

525557

Zinc Carbon & Zinc Chloride



Zinc Carbon and Zinc Chloride

3E12 and PP9 Batteries

Popular size zinc carbon and zinc chloride batteries.

- Suitable for bench power packs and education/ training applications
- 3R12/1289 type has flat spring contacts



Technical specification

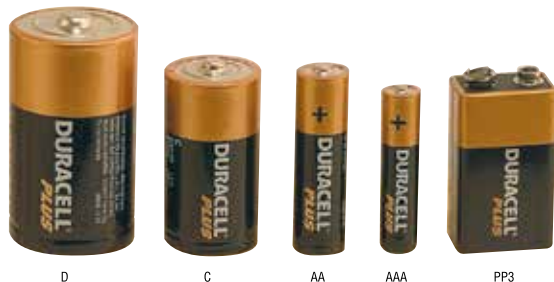
Voltage	Dimensions	Weight		Type	Order code
4.5V	60 x 22 x 67mm	120g		3R12/1289	18-0247
9V	81 x 52 x 66mm	410g		PP9	18-0252
				zinc-chloride	
				zinc-carbon	
Type	Order code	1+	6+	24+	
GP312/3R12/1289 4.5V	18-0247	0.847	0.745	0.673	
GP1603S/PP9 9V	18-0252	3.23	3.00	2.95	

06223

Alkaline

DURACELL®

Plus Battery – AA, AAA, C Cell, D, PP3



The Duracell Plus range of long-life alkaline batteries offer a significant performance increase over the original 'Copper-top' range. The batteries are available in AA, AAA, C cell, D cell and PP3 sizes.

- Considerably longer life than ordinary zinc-carbon or zinc chloride batteries
- Provides longer lasting and dependable power source
- Supplied in **pack quantities**
- Available in **AA, AAA, C cell, D cell PP3 batteries**

Type	Pack qty	Order code	1+	5+	10+
AAA	4	18-3250	3.34	2.89	2.53
AA	4	18-3260	3.34	2.89	2.53
AA	12	18-3262	8.72	7.64	6.83
C	2	18-3265	2.89	2.53	2.26
C	6	18-3267	7.75	6.83	6.14
D	2	18-3270	3.20	2.75	2.44
D	6	18-3272	8.67	7.35	6.55
PP3	1	18-3275	3.10	2.69	2.44

062728

DURACELL®

Alkaline Manganese Dioxide Batteries – AA, AAA, C, D, PP3

A range of Industrial Duracell Alkaline-Manganese Dioxide Batteries. These Duracell batteries will provide you with the quality power that you know and trust from Duracell, at a great price.

Consumers want a battery they can trust, to serve as the heart of their devices, and Duracell has a reputation for going on long after their rivals have stopped. These batteries can be used in a wide variety of equipment including torches, flashlights, safety equipment (such as gas detectors), microphones, communication devices, measuring and medical instruments.

Whether you are powering the ordinary devices you use most often or those that are most critical to your job, Duracell has alkaline batteries engineered to suit your professional needs.

- Designed and packaged for wholesale and professional trade customers
- Non rechargeable (Alkaline)
- Suitable to a wide range of applications
- Higher energy content than zinc carbon
- Available in **packs of 10, 100 and 204**
- Available in **AA, AAA, 'C' cell, 'D' cell and PP3 battery sizes**

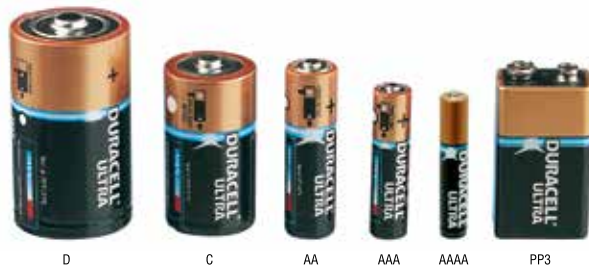
Mfrs. Part	Type	Voltage	Capacity	Box quantity	Order code
PCA2432	AA (LR6)	1.5V	2.7Ah	10	18-3341
PCA2431	AAA (LR03)	1.5V	1.75Ah	10	18-3342
PCA2433	C Cell (LR14)	1.5V	7.75Ah	10	18-3343
PCA2434	D Cell (LR20)	1.5V	18Ah	10	18-3344
PCA2410	PP3 (6LR22)	1.5V	550Ah	10	18-3345
PCA2437	C Cell (LR14)	1.5V	7.75Ah	204	18-3346
PCA2438	D Cell (LR20)	1.5V	18Ah	100	18-3347

Type	Order code	1+	10+
AA, LR6	18-3341	3.50	3.10
AAA, LR3	18-3342	3.15	2.80
C Cell, LR14	18-3343	7.60	6.80
D Cell, LR20	18-3344	9.50	8.60
PP3, 6LR61	18-3345	11.50	10.10
C Cell, LR14	18-3346	137.00	
D Cell, LR20	18-3347	84.00	

547598

DURACELL®

Ultra M3 Alkaline AA, AAA, C Cell, D Cell PP3 Batteries



These classic Duracell alkaline batteries are designed for use in a wide range of electronic devices, such as digital cameras, remote controls, portable radios, torches and PDAs.

- Can provide up to 100% more life than standard alkaline batteries
- Supplied in **pack quantities as indicated**
- Available in **AA, AAA, C cell, D cell PP3 batteries**

Type	Pack qty	Order code	1+	5+	10+
AAA	4	18-3450	3.23	2.73	2.54
AA	4	18-3455	3.23	2.73	2.54
C	2	18-3458	2.88	2.44	2.26
D	2	18-3460	2.69	2.28	2.12
PP3	1	18-3462	2.88	2.44	2.26

062322

DURACELL®

Duracell Alkaline Lantern Battery PJ996 type

A 6V lantern battery with coiled spring contacts.

- The alkaline battery system offers considerably higher capacity than zinc-carbon equivalents
- Ideal when length of battery life is the primary consideration
- Equivalent in size to PJ996 type
- Dimensions 68 x 68 x 98mm excluding spring contacts



Type	Order code	1+	6+	12+
PC908 Alkaline battery	18-0272	9.76	8.72	7.80

062333



Alkaline AA, AAA, C Cell, D Cell, PP3 Batteries



A range of high quality, reliable batteries that have been manufactured using the latest technology to ensure peak performance.

- Non rechargeable
- Mercury-free
- Cadmium free
- Suitable to a wide range of applications
- Available in **AA, AAA, C cell, D cell and PP3**
- CE approved

Type	Order code	1+	20+	100+	500+
AAA Battery	18-1450	0.319	0.275	0.196	0.149
AA Battery	18-1452	0.319	0.275	0.196	0.149
C Battery	18-1454	0.938	0.769	0.674	0.589
D Battery	18-1456	1.13	0.931	0.85	0.746
PP3 Battery	18-1458	1.32	1.08	0.953	0.85

080161

Rapid newsletter

Sign up to our email newsletter for news, special offers & promotions

www.rapidonline.com/newsletter



Alkaline AA Batteries

An essential in the kitchen drawer of every household. These excellent value alkaline AA batteries from Conrad Energy offer the quality and endurance you would expect from premium brands at an unbeatable price. AA batteries are the most commonly used battery in the world, so keeping a few spare around the house is always a good idea. They are available in packs of 4, and also in money-saving packs of 24.



- High quality
- Rating: 1.5V
- Alkaline batteries maintain their charge longer than rechargeable batteries
- Available in **packs of 4** and also in money saving **packs of 24**

Technical specification

Battery size	AA
Battery technology	Alkali-manganese
Battery type comparison	LR06, AA, LR6, AAB4E, AM3, M, MN1500, 815, E91, LR6N, 15A, KAA, R6, R06, BA3058, U7524, UM3, Mignon, V1500PX (ø x H) 14mm x 50.5mm
Dimensions	
Voltage	1.5V

Type	Order code	1+
AA Pack of 4	51-2129	0.898
AA pack of 24	51-2127	4.57

524061



Alkaline 9V Batteries – Pack of 10

A pack of 10 alkaline 9V batteries from Conrad Energy which have been manufactured for industrial and commercial uses. Carton packed and longlife.



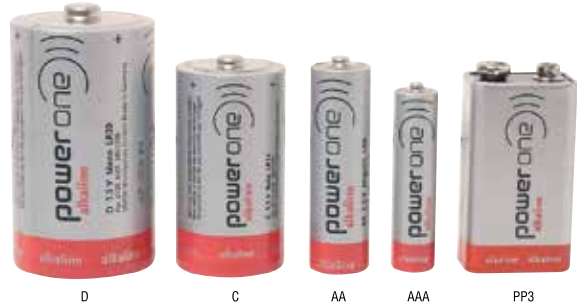
- Battery size: 9V PP3
- Pack of 10
- Depth: 16mm
- Height: 48.5mm
- Width: 25.5mm
- Voltage: 9V
- Manufacturer's part **650900**

Type	Order code	1+
Alkaline 9V batteries	54-6508	12.09

537782



Power One Alkaline AAA, AA, C, D and PP3 Batteries



Top quality non-rechargeable alkaline batteries from Varta Microbattery.

- 100% mercury-free
- Six times the energy content of standard zinc-carbon types
- Available in **AA, AAA, C cell, D cell PP3 batteries**

Type	Order code	1+	20+	100+	500+
AAA	18-4205	0.441	0.355	0.312	0.26
AA	18-4210	0.463	0.366	0.323	0.272
C	18-4215	1.05	0.999	0.788	0.735
D	18-4220	1.62	1.36	1.21	1.16
PP3	18-4230	2.26	1.77	1.59	1.53

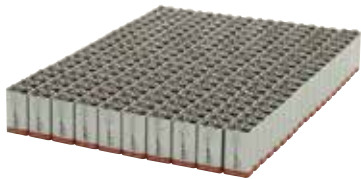
066115

No minimum order value
UK mainland only



Bulk Packed Power One Alkaline AAA, AA, C and PP3 Batteries

Top quality non-rechargeable alkaline batteries from Varta Microbattery.



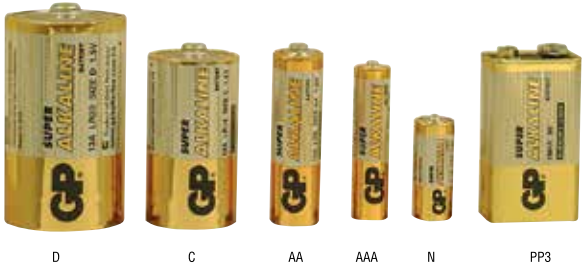
- 100% mercury-free
- Six times the energy content of standard zinc-carbon types
- Available in **AA, AAA, C and PP3 batteries**

Type	Order code	1+
AAA 500 Bulk pack	18-4250	170.18
AA 500 Bulk pack	18-4255	109.76
C 200 Bulk pack	18-4260	49.98
PP3 200 Bulk pack	18-4270	191.72

071249



Alkaline AA, AAA, C Cell, D Cell and PP3 Batteries



A range of non-rechargeable batteries in popular sizes.

- 100% mercury-free
- Up to six times the energy content of standard zinc-carbon types
- Available in **AA, AAA, C cell, D cell and PP3**

Technical specification

N	= MN9100 = LR1
AAA	= MN2400 = LR03
AA	= MN1500 = LR6
C	= MN1400 = LR14

Type	Order code	1+	20+	100+	500+
N	18-1900	0.652	0.563	0.519	0.492
AAA	18-1902	0.326	0.23	0.17	0.154
AA	18-1904	0.357	0.255	0.189	0.171
C	18-1906	1.00	0.829	0.743	0.576
D	18-1908	1.32	1.09	0.99	0.75
PP3	18-0200	0.905			

062234



Bulk Packed Alkaline Batteries

These bulk packed non-rechargeable alkaline batteries represent very good value for money.



- 100% mercury-free
- Up to six times the energy content of standard zinc-carbon types

Technical specification

Battery	Pack size	Order code
AA cell	1000	18-1905
C cell	240	18-1907
D cell	120	18-1909

Type	Order code	1+
AA Pack of 1000	18-1905	182.03
C Cell pack of 240	18-1907	138.52
D Cell pack of 120	18-1909	100.51

074754

GP Batteries

Miniature Alkaline GP11A, GP27A, GP23AE Batteries

A range of miniature alkaline batteries.

- Suitable for cameras, remote control key fobs and lighters etc.
- Available in **3 options** (see technical specification)



Technical specification

Type	Voltage	Dimensions	Weight	Order code
GP11A	6V	10.3(dia.) x 16.5(L)	4.0g	18-0256
GP27A	12V	7.7(dia.) x 28.0(L)	4.4g	18-0258
GP23AE	12V	10.3(dia.) x 27.8(L)	7.86g	18-0259

Type	Order code	1+	10+	50+	100+
GP11A 6V	18-0256	0.70	0.668	0.635	0.582
GP27A 12V	18-0258	1.00	0.948	0.883	0.798
GP23AE 12V	18-0259	0.646	0.56	0.441	0.334

074640

RVFM

Multimeter/Photographic Batteries

Alkaline batteries as used in photographic applications and the ever popular AVO 8 multimeter.

- Early AVO 8s use the BLR121 while later models use the BLR154 type



Technical specification

Type	Voltage	Dimensions	Weight
BLR121	15V	27 x 16 x 37mm	16g
BLR154	15V	15 dia. x 34mm	15g

Type	Order code	1+	6+	12+
BLR121	18-0265	6.25	5.99	5.37
BLR154	18-0267	6.62	6.04	5.55

035959

Vinnic

Button Cell Battery, L626 for Watches, Cameras, Calculators, Toys

The **Alkaline L626** is a popular **Button Cell Battery**, and is commonly used in cameras, calculators, toys, watches and other small device applications. This **1.5V Button Cell** delivers a high operating voltage with excellent storage capability. The button cell has a long shelf life and consistent performance.

- Type: Alkaline L626
- Voltage: 1.5V
- Size: length 2.6mm x diameter 5.8mm
- Supplied in **packs of 10**



Type	Order code	1+
L7626 Button cell	18-5100	0.79

548229

renata batteries

LR44 1.5V Alkaline Button Cell, Packs of 2

The **Renata** is a **LR44 1.5V Alkaline Battery** and highly popular to general electronic devices. This long life button cell has a 11.6mm diameter.

These button cells are commonly used in computers as a CMOS Battery, some scientific and graphing calculators, scientific instruments, watches, clocks/watches, toys, remote keyless systems, garage door openers, door bells and small LED torches.

- Battery Capacity: 105.0mAh
- Battery Technology: Alkaline (Single Use)
- Current: 0.0002A



- Diameter: 11.6mm
- Height: 5.4mm
- Voltage: 1.5V
- Weight: 1.75g
- Replaces: 1166A, 357A, 5244, A01, A200, A76, A76LR44, AG-13, AG13, FM28F, G13, G13-A, G13A, GP76A, GPA76, KA, KA76, L1154, LR44, LR44H, RW82, V13GA, WL14
- Supplied in **packs of 2**
- Manufacturer's part: **Renata Alkaline LR44 Cell Battery**

Technical specification

Chemical system	Zinc / Manganese Dioxide, high drain
Nominal Voltage	1.50V
Capacity	105mAh, Discharge over 8,25kΩ at 20°C to 0.9V
Internal Resistance	Below 20Ω at 20°C
Operating Temperature	0°C to +60°C
Self Discharge Less than	10% per year at 20°C
Weight	1.75g

Type	Order code	1+
Button cell LR44	52-1976	0.663

544243

RVFM

Alkaline Button Cells

A range of the most popular long life alkaline manganese button cells.

- Nominal voltage 1.5V
- Used extensively in calculators, cameras, clocks etc.
- Supplied in **protective blister packs**



Technical specification

Type	Dia. (mm)	Height (mm)	Ever Ready	Ray-o-vac	Maxell	Varta	Order Code
L621	6.8	2.1	-	-	LR60	-	18-1395
L736	7.9	3.6	192	-	LR41	-	18-0410
L1131	11.6	3.1	189	RW89	LR1130	V10GA	18-1375
L1142	11.6	4.2	186	RW84	LR43	V12GA	18-0400
L1154	11.6	5.4	-	-	-	-	18-0405
LR44	11.5	5.2	-	-	LR44	V13GA	18-1361

Type	Order code	1+	10+	100+	500+
L621	18-1395	1.25	1.05	0.847	0.755
L736	18-0410	0.163	0.108	0.085	0.066
L1131	18-1375	0.172	0.118	0.096	0.079
L1142 packs of 2	18-0400	0.172	0.118	0.097	0.079
LR44, V13GA, PX76A	18-1361	0.83	0.777	0.63	0.57
L1121 (LR55)	18-0401	0.103	0.095	0.077	0.071

062240

DURACELL®

LR44 - 2 Pack

The Duracell LR44 is suitable for a range of small electronic equipment including calculators and power photo equipment. Duracell offers a wide range of specialty batteries. For long lasting power use Duracell in all your important devices.

Duracell is the world's leading producer of high-performance batteries. Duracell believes there is no limit to the potential of portable power and it always strives to find innovative and efficient ways to power your life.

- Chemistry of battery: Alkaline (single use)
- Battery type: Coin cell
- Capacity: 105.0mAh
- Current: 0.0002A
- Voltage: 1.50V
- Dimensions: 11.6 x 5.4mm
- Replaces: 1166A, 5244, A01, A200, A76, A76LR44, AG-13, AG13, FM28F, G13, G13-A, G13A, GP76A, GPA76, KA, KA76, L1154, LR44, LR44H, RW82, V13GA, WL14
- Supplied in **packs of 2**



Technical specification

Nominal voltage:	1.5V
Average weight:	1.7gm (0.06oz)
Volume:	0.57cm³(0.035 in³)
Terminals:	Flat
Operating temperature range:	-20°C to +54°C (-4°F to +130°F)
ANSI:	1166A
IEC:	LR44

Type	Order code	1+	5+
Duracell LR44	18-4760	2.43	2.15

500594

Digital Multimeter Class Packs



Vinnic

Vinnic Alkaline Cell Batteries – Packs of 10

A wide range of Vinnic Alkaline batteries that are suitable for a wide variety of items and some of the more common ones we have listed below.

These Vinnic alkaline are ideal for use in inexpensive items such as cheap watches, travel clocks, games, radios, books, calculators, musical cards and mugs, light up badges etc, toys and novelty items.

Items that are of higher value, such as quality watches use Silver oxide or lithium batteries.

Please note that these Alkaline batteries can be used as replacements for the following brands: Energizer, Eveready, National, Panasonic, AG, LR, Philips, Duracell, Sony, Toshiba and button cell.

These high quality Vinnic alkaline coin batteries provide superior performance and durability over cheaper unbranded alkaline coin cells.

- Inexpensive
- Alkaline batteries
- Button cell replacements
- Supplied in **packs of 10**

Please always double check your product instructions and the technical specification to ensure you order the correct battery.

Technical specification			
Vinnic part no.	Replaces	Order code	
Vinnic L621-C10	Replacement for AG1, G1, SR621SW, SR60, 364, SR621, SB-AG/ DG, 280-34, T, V364, D364, 602, S621E, GP364, G1A, LR621, LR60, LR620, 164, 362	18-5085	
Vinnic L626-C10	Replacement for AG4, LR626, LR66, SR626SW, SR66, SR626, SB-AW, 280-39, BA, V377, D377, 606, S626E, GP377, 377, 177, 377A	18-5086	
Vinnic L726-C10	Replacement for AG2, SR726, SR59, 396, 556, 29, RW411	18-5087	
Vinnic L736-C10	Replacement for AG3, 192, 384, 392, 392A, CX41, G3, LR41, LR736, V3GA, D384, 247, 247B, 280-13, K, SB-B1, SR41, TR41SW, SR41SW, GS3, SR41W, SR736, 736, 547, SP392, V392, S22, S736S, 1134SO	18-5088	
Vinnic L921-C10	Replacement for AG6 SR920SW, SR69, SR921, SB-AN, 280-31, 371, V371, D371, 605, S921E, D370, LR-921, 537, 371L, GP371, SR920, SB-AW, SP371, SR921, S21, S18, 605, 370, 1171SO, 1188SO, TR920SW, V371	18-5089	
Vinnic L926-C10	Replacement for AG7, SR926, SR57, 399, 543, 35, RW413	18-5090	
Vinnic L1131-C10	Replacement for AG10, G10, G10A, GP389, LR54, D189, M, 4274, 534, 554, 615, 626, 603, 386, 389, 390, 189, 89A, 280-15, 280-15, S1131E, SR1130W, SR1130WS, SR1130, SB-BU, S1131, S1131S, SG10, SR43, SR54, S120, SL10, S1142, RW39, RW89, LR1130, LR113, V10GA, V389, V10GS, VOS10, V390, WSG10	18-5091	
Vinnic L1142-C10	Replacement for AG12, LR43, 386, LR1142, SR43W, 186, 1176A, 186-1, 301A, 386A, G12A, GP86A, RW84, V12GA, G12, D186, SR43, SR1142, SB-B8, 280-4, H, V386, 260, S1142E, SG12, GP386, 1176A, GP86A, 301A, 386A, 186, 1176A, 186-1, 301A	18-5092	
Vinnic L1154-C10	Replacement for G13, 357, 303, 157, 1128MP, 1166A, AG13, D76A, G13A, GPA7, GPA76, LR44, LR1154, SR44, PX675A, PX76A, RPK675, V13GA, RW82, A76, MS76, S76	18-5093	

Type	Order code	1+	10+	25+
Vinnic L621-C10	18-5085	1.31	1.11	0.948
Vinnic L626-C10	18-5086	1.31	1.11	0.948
Vinnic L726-C10	18-5087	1.31	1.11	0.948
Vinnic L736-C10	18-5088	1.31	1.11	0.948
Vinnic L1131-C10	18-5091	1.31	1.11	0.948
Vinnic L1142-C10	18-5092	1.31	1.11	0.948
Vinnic L1154-C10	18-5093	1.31	1.11	0.948

50240



Lithium AAA Batteries

The most technologically advanced battery, for consumers who want a battery that offers the best performance.

- Ideal for high drain devices
- Use in digital still cameras, MP3 players and portable LCD TVs, where performance matters
- Helps your device work for longer
- Keeps running even in cold temperatures
- Lighter than an alkaline batteries
- Great for when you are using portable devices
- Supplied in **packs of 2**

Type	Order code	1+	12+	24+
Lithium AAA batteries	18-0216	8.51	7.65	6.48

078404



Ultralife

Lithium PP3 Cell Batteries

High capacity 9V lithium PP3.

- Lasts up to 5 times longer than ordinary alkaline 9V batteries and 10 times longer than carbon-zinc batteries
- Suitable for use in smoke alarms, security devices, portable devices and medical electronics
- Has flat voltage discharge throughout life
- Does not contain any mercury, cadmium or lead
- Recommended replacement battery for your smoke alarm

Technical specification	
Rated voltage	9.0V
Rated capacity	1200mAh 900Ω to 5.4V
Maximum discharge	120mA
Weight	37.5g
Shelf life	Up to 10 years
Temperature range	-40°C to +70°C

Type	Order code	1+	10+	25+	100+
Lithium PP3 battery	18-0202	6.46	6.09	5.74	5.39

062245



Lithium Coin Cell Batteries

These Maxell lithium coin cell battery (CR battery) are a small, lightweight battery with an operating voltage of 3V and the ability to operate over a wide temperature range.

It has a wide range of applications, both for powering devices such as wristwatches and electronic calculators and can be used in all types of electronic devices mainly as memory and RTC backup.



Model	Nominal capacity	Nominal current	Operating temp	Dimensions	Weight
CR2450	3 610mAh	0.2mA	-20°C to +85°C	24.5mm	6.6g
CR2430	3 290mAh	0.2mA	-20°C to +85°C	24.5mm	4.6g
CR2032H	3 240mAh	0.2mA	-20°C to +85°C	20mm	3g
CR2032	3 220mAh	0.2mA	-20°C to +85°C	20mm	3g
CR2025	3 170mAh	0.2mA	-20°C to +85°C	20mm	2.5g
CR2016	3 90mAh	0.1mA	-20°C to +85°C	20mm	1.7g
CR1632	3 140mAh	0.1mA	-20°C to +85°C	16mm	1.9g
CR1620	3 80mAh	0.1mA	-20°C to +85°C	16mm	1.3g
CR1616	3 55mAh	0.1mA	-20°C to +85°C	16mm	1.1g
CR1220	3 36mAh	0.1mA	-20°C to +85°C	12.5mm	0.8g
CR1216	3 25mAh	0.1mA	-20°C to +85°C	12.5mm	0.6g
CR1025	3 30mAh	0.1mA	-20°C to +85°C	10mm	0.6g

Type	Order code	1+	10+	25+
Cell CR2016	18-5097	1.86	1.58	1.34
Cell CR2025	18-5098	1.86	1.58	1.34
Cell CR2032	18-5099	1.86	1.58	1.34

50244



Lithium AA Batteries

Lithium iron sulphide AA cells offering several distinct advantages over equivalent alkaline cells.

- High energy density for longer life
- Wide temperature range
- Up to 30% lighter than alkaline equivalent
- Does not contain any mercury or cadmium
- High charge retention: 85% of initial capacity after ten years storage
- Cells incorporate a safety overload vent
- Energizer type L91
- Supplied in **packs of 2**



Technical specification	
Nominal cell voltage	1.5V
Capacity	2900mAh
Max. discharge	2.0A continuous
Operating/storage temperature	-40°C to +60°C
Operational life	Up to 10 years -discharge current dictates actual life
Weight	14.5g

Type	Order code	1+	12+	24+
Pack of 2x AA	18-0214	6.70	6.01	5.58

062244

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Selected brands

CR Lithium Battery Coin Cells

A range of lithium manganese 3V coin cells.

- Non-rechargeable
- Operating temperature -20°C to +60°C
- Used in miniature electronic equipment, calculators and watches
- PCB versions are ideally suited to memory backup applications



Technical specification

Type	Voltage	Capacity	Height	Width	Depth	A	Weight (g)	Order code
CR2025	3V	150	2.5	20	2.5	-	-	18-0485
CR2032	3V	200	3.2	20	3	-	-	18-0490
PCB mount horizontal								
CR2032	3V	220	6.5	20	17.8	15	4.2	18-0461
PCB mount vertical								
CR2032	3V	220	21.5	20.5	4.2	4.2	4.2	18-0467

Type	Order code	1+	25+	100+	500+
CR2025 Lithium cell	18-0485	0.795	0.631	0.391	0.218
CR2032 Lithium cell	18-0490	0.562	0.426	0.344	0.26
CR2032 PCB horiz.	18-0461	1.03	0.799	0.63	0.567
CR2032 PCB vert.	18-0467	1.04	0.804	0.631	0.573

074894



Lithium Coin Cell Batteries



Type	Order code	1+	10+	25+
Cell CR1025	18-5071	1.13	0.958	0.819
Cell CR1216	18-5072	1.13	0.958	0.819
Cell CR1220	18-5073	1.13	0.958	0.819
Cell CR1225	18-5074	1.13	0.958	0.819
Cell CR1616	18-5075	1.13	0.958	0.819
Cell CR1620	18-5076	1.13	0.958	0.819
Cell CR1632	18-5077	1.13	0.958	0.819
Cell CR2016	18-5078	0.614	0.517	0.441
Cell CR2025	18-5079	0.614	0.517	0.441
Cell CR2032	18-5080	0.483	0.41	0.347
Cell CR2320	18-5081	1.13	0.958	0.819
Cell CR2325	18-5082	1.25	1.08	0.916
Cell CR2430	18-5083	1.17	1.00	0.851
Cell CR2450N	18-5084	1.79	1.52	1.29

502453



Flat Lithium Battery, CR1220

These GP Lithium Coin Batteries are ideal calculators, time pieces, remote controls, etc. These high energy batteries have a 5 year shelf life.

- Description: Flat Lithium Battery
- Chemical system: Lithium Manganese Dioxide
- Nominal voltage: 3V
- Nominal capacity: 36mAh
- Dimensions: 12.5(diameter) x 2.0(D)mm
- Shelf life: 5 years at room temperature
- Average weight: 0.8g
- Applications: watch, calculator, camera and memory back up
- Supplied in **packs of 5**
- Manufacturer's part: **GP CR1220**



Type	Order code	1+	25+	100+	500+
Lithium Batteries	18-0363	3.94	2.98	2.29	2.11

548228



Lithium Coin Cell Batteries

A range of lithium manganese 3V coin cells.

- Non-rechargeable
- Operating temperature -20°C to +60°C
- Used in miniature electronic equipment, calculators and watches
- PCB versions are ideally suited to memory backup applications



Technical specification

Type	Voltage	Capacity (mAh)	Height	Diameter	Weight (g)	Mfr.	Order code
CR1220	3V	36	2	12	0.8	GP	18-0361
CR1616	3V	50	1.6	16	1.2	GP	18-0365
CR1620	3V	78	2	16	1.2	GP	18-0379
CR2016	3V	75	1.6	20	1.7	GP	18-0481
CR2430	3V	280	3	24.5	4	GP	18-0375

Type	Order code	1+	25+	100+	500+
CR1220 GP	18-0361	0.809	0.614	0.474	0.441
CR1616 GP	18-0365	0.883	0.765	0.646	0.527
CR1620 Lithium cell	18-0379	1.13	0.948	0.829	0.657
CR2016 GP	18-0481	0.851	0.678	0.582	0.539
CR2430 Lithium cell	18-0375	1.03	0.958	0.829	0.775

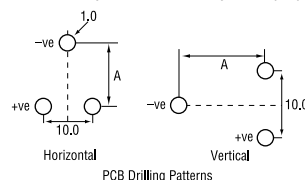
074895



Lithium Coin Cells - Varta Microbattery

A range of lithium manganese 3V coin cells. Includes CR2032 and CR2430.

- High quality coin cells
- Non-rechargeable
- Suitable for applications requiring consistent and accurate performance
- PCB mounting versions are ideally suited to memory backup applications



Technical specification

Type	Voltage	Capacity	Height	Width	Depth	Weight	Order code
PCB mount horizontal							
CR2032	3V	230mAh	6.5	20	17.8	4.2g	18-0462
CR2430	3V	280mAh	6.5	24.5	18	5g	18-0470
PCB mount vertical							
CR2032	3V	230mAh	21.5	20.5	4.2	4.2g	18-0468
CR2430	3V	280mAh	25.8	25.8	4	5g	18-0475

Type	Order code	1+	10+	100+	250+
CR2032 Horiz	18-0462	1.10	0.999	0.84	0.735
CR2430 Horiz	18-0470	1.52	1.37	1.10	1.05
CR2430 Vert	18-0475	1.63	1.47	1.37	1.20
CR2032 Vert	18-0468	0.406			

060851



Photographic/Instrument Batteries

A range of lithium manganese batteries.

- Non-rechargeable
- Suitable for use in cameras, electronic equipment
- Also suitable for memory back-up applications



Technical specification

Type	Nominal Voltage	Nominal Capacity	Dimensions (mm) Approx	Order code
2CR5	6V	1.5Ah	45 x 34 x 17	18-0445
CR123A	3V	1.3Ah	34.4 x 17 dia.	18-0447
CR2	3V	800mAh	27.0 x 15.6 dia.	18-0449
CR-P2	6V	1.3Ah	35.8 x 34.8 x 19.3	18-0451

Type	Order code	1+	10+	50+
2CR5	18-0445	8.94	7.60	6.26
CR123A	18-0447	4.56	3.23	2.57
CR2	18-0449	4.29	3.03	2.47
Lithium Manganese	18-0468	0.406		

062622



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Silver Oxide



Silver Oxide Button Cell Batteries: Packs of 5

This GP range of silver oxide button cells is supplied in blister pack form with 5 batteries on a card. The range consists of 6 of the most popular sizes for watches, calculators, hearing aids and many other applications.

- Suitable where size and performance are important factors
- Superior replacements for alkaline cells of the same dimensions
- Nominal voltage 1.55V
- Supplied in protective blister packs



Technical specification									
Order code	Type	Diameter (mm)	Height (mm)	IEC	Duracell	Renata	Ray-O-VAC	Mftrs. pt. No.	
18-1414	357	11.6	5.4	SR 44	D357	R7	RW313/357	GPBBS357	
18-1415	364	6.8	2.15	SR 60	D 364	R 364/31	RW 320	GPBBS364	
18-1416	377	6.8	2.6	SR 66	D 377	R 377/37	RW 329	GPBBS377	
18-1418	389	11.6	3.05	SR 54	D389	R17	RW389	GPBBS389	
18-1417	386	11.6	4.2	SR 43	D301/386	R1/R4	RW301/354	GPBBS386	
18-1419	392	7.9	3.6	SR 41	D392	R2	RW392	GPBBS392	

Type	Order code	1+
392 (SR41W)	18-1419	2.40
386 (SR43W)	18-1417	6.02
357 (SR44W)	18-1414	9.69
364 (SR60)	18-1415	1.48
377 (SR66)	18-1416	1.63
389 (SR1130W)	18-1418	3.93

53875

SONY

Silver Oxide Coin Cell Battery

The Sony Silver oxide battery is a small-sized primary battery mainly used for wrist watches to portable devices such as electric clinical thermometers and portable games.

Rapid are now offering a wide range of all the most popular coin cells in use today. These batteries have a shelf life of 5+ years, so why not buy two or more and make sure you are not left without a watch next time your battery runs out.



Type	Order code	1+	10+	25+
Silver Oxide Cell 319	18-5002	0.851	0.722	0.614
Silver Oxide Cell 321	18-5003	0.635	0.539	0.453
Silver Oxide Cell 329	18-5004	1.04	0.895	0.755
Silver Oxide Cell 335	18-5005	0.98	0.829	0.712
Silver Oxide Cell 337	18-5006	0.864		
Silver Oxide Cell 371	18-5007	1.06	0.905	0.775
Silver Oxide Cell 396	18-5008	1.09	0.927	0.785
Silver Oxide Cell 397	18-5009	1.35	1.15	0.98
Silver Oxide Cell 357	18-5010	1.95	1.65	1.40
Silver Oxide Cell 361	18-5011	0.916	0.775	0.657
Silver Oxide Cell 364	18-5012	0.41	0.355	0.302
Silver Oxide Cell 365	18-5013	1.13	0.958	0.819
Silver Oxide Cell 370	18-5014	0.98	0.829	0.712
Silver Oxide Cell 373	18-5015	0.98	0.829	0.712
Silver Oxide Cell 377	18-5016	0.41	0.355	0.302
Silver Oxide Cell 379	18-5017	0.614	0.517	0.441
Silver Oxide Cell 386	18-5018	1.79	1.52	1.29
Silver Oxide Cell 389	18-5019	1.64	1.39	1.18
Silver Oxide Cell 391	18-5020	1.47	1.25	1.06
Silver Oxide Cell 392	18-5021	0.928	0.785	0.734
Silver Oxide Cell 394	18-5023	1.28	1.09	0.927
Silver Oxide Cell 396	18-5024	0.98	0.829	0.712
Silver Oxide Cell 399	18-5025	1.06	0.905	0.775

50309



Silver Oxide Battery Cells

A wide range of Renata batteries in all the most popular sizes. Renata's comprehensive assortment of over 40 different watch battery types, mostly of the silver oxide 1.55V system, offers a suitable power source for any electronic device requiring an ultra-compact, long lasting, low voltage power source.



Thanks to its close association with Swiss watch industry, Renata has first-hand knowledge of what a high quality watch battery must stand for. So choose Renata, their professional expertise is worth having on your side. And in your watches.

- Reliable
- An optimised volume/capacity ratio
- Dimensional precision and stability
- High capacity retention on storage (low self-discharge)
- Excellent reliability thanks to a uniformly high quality level
- State of the art leak proofness thanks to a sophisticated sealing process
- Constant availability

Type	Order code	1+	10+	25+
Cell 301	18-5030	2.07	1.75	1.49
Cell 303	18-5031	3.05	2.59	2.19
Cell 315	18-5033	0.98	0.829	0.712
Cell 317	18-5034	1.13	0.958	0.819
Cell 319	18-5035	1.13	0.958	0.819
Cell 321	18-5036	0.98	0.829	0.712
Cell 329	18-5037	1.13	0.958	0.819
Cell 335	18-5038	0.459		
Cell 337	18-5039	2.72	2.31	1.98
Cell 339	18-5040	2.01	1.70	1.44
Cell 341	18-5041	2.01	1.70	1.44
Cell 344	18-5042	1.86	1.58	1.34
Cell 346	18-5043	2.05	1.74	1.47
Cell 350	18-5044	1.86	1.58	1.34
Cell 357	18-5045	1.86	1.58	1.34
Cell 361	18-5046	0.958	0.819	0.69
Cell 362	18-5047	0.765	0.646	0.55
Cell 365	18-5049	2.60	2.21	1.89
Cell 366	18-5050	2.78	2.38	2.02
Cell 370	18-5051	0.98	0.829	0.712
Cell 371	18-5052	0.765	0.646	0.55
Cell 373	18-5053	1.13	0.958	0.819
Cell 376	18-5054	1.17	1.00	0.851
Cell 377	18-5055	0.55	0.463	0.399
Cell 379	18-5056	0.743	0.625	0.539
Cell 380	18-5057	1.56	1.34	1.13
Cell 381	18-5058	1.41	1.20	1.02
Cell 384	18-5059	0.98	0.829	0.712
Cell 386	18-5060	2.01	1.70	1.44
Cell 389	18-5061	1.35	1.15	0.98
Cell 390	18-5062	1.04	0.895	0.755
Cell 391	18-5063	1.19	1.02	0.862
Cell 392	18-5064	0.872	0.743	0.625
Cell 393	18-5065	1.56	1.34	1.13
Cell 394	18-5066	1.25	1.08	0.916
Cell 395	18-5067	0.872	0.743	0.625
Cell 396	18-5068	0.916	0.775	0.657
Cell 397	18-5069	0.829	0.70	0.593
Cell 399	18-5070	0.98	0.829	0.712

502452

Zinc – Air



Zinc Air Button Cell Batteries

A range of 1.4V zinc air button cells.

- Providing energy only when the protective seal is removed
- High capacity
- Flat discharge profile
- Ideally suited to medical electronics, e.g. hearing aids and other applications where precise operational life is required
- Supplied in blister packs of 6



Technical specification				
Type	Dimensions (mm) Diameter	Height	Duracell cross ref.	Order code
GPZA10	5.8	3.55	DA230	18-1252
GPZA312	7.9	3.6	DA312	18-1254
GPZA13	7.9	5.4	DA13	18-1256
GPZA675	11.6	5.4	DA675	18-1258

Type	Order code	1+	5+	10+
GP2A10 Pack of 6	18-1252	3.93	3.68	3.36
GP2A312 Pack of 6	18-1254	4.00	3.74	3.41
GP2A13 Pack of 6	18-1256	4.00	3.74	3.41
GP2A675 Pack of 6	18-1258	3.69	3.45	3.15

061051

Nickel Hydride



7.2V NiMH Battery Packs

A wide range of 7.2V, Nickel Metal Hydride (NiMH) batteries, which offer greater capacity, higher discharge currents and faster charging. They have been designed for use with any suitable radio control car, boat or remote control plane. We recommend this pack as a possible replacement for your current racing pack.

- Ideal for applications that push racing packs hard
- Good life expectancy
- Suitable for use in most radio controlled cars, boats, robotics etc.
- Fitted with a high temperature power leads
- Available in the following options 2000, 2700, 3000, 3700 and 4500 NiMH



Type	Order code	1+
2000mAh Battery pack	18-3810	12.55
3000mAh Battery pack	18-3811	20.60
4500mAh Battery pack	18-3815	27.50

062083



Rechargeable PP9 Battery NiMH

A nickel-metal hydride rechargeable battery suitable for all applications.

- Can be used as a direct replacement for the zinc carbon type
- Charging may be via the top stud connections or via a socket in the top of the battery

Please see this section for suitable stud connections



Technical specification	
Nominal voltage	8.4V
Nominal capacity	1.8Ah
Dimensions (excluding contacts)	81.5mm x 66mm x 52mm
Weight (approx.)	385g

Type	Order code	1+	5+	10+
PP9 Battery NiMH	18-0286	32.47	31.18	29.88

060815



Rechargeable AAA Batteries NiMH 1.2V

A range of rechargeable high capacity AAA batteries. They are available with capacities of 700mAh, 900mAh, 1000mAh and 1100mAh. They are great for everyday devices including MP3 players, digital cameras, cordless phones and offer great value for money.

These AAA size batteries will offer you the ultimate in performance and battery life. NiMH (nickel metal hydride) type batteries are favoured by demanding users as they are memory free and offer superb performance over traditional Ni-Cad rechargeable and also single-use Alkaline types.

Ask yourself why NiMH rechargeable batteries are becoming so very popular? Because using rechargeable batteries will save you hundreds of pounds over the course of their lifetime.

- Technology: NiMH
- Dimensions: (ø x H) 10.5mm x 44.5mm
- Voltage: 1.2V
- Size: AAA
- Quick charge capability
- Low self discharge
- Available in **700mAh, 900mAh, 1000mAh and 1100mAh**



Technical specification	
Battery size	AAA
Battery technology	NiMH
Dimensions	(ø x H) 10.5mm x 44.5mm
Rechargeable	Yes
Rechargeable battery capacity	700mAh
Battery type comparison	HR3, HR03, U0100557, DC2400, DC2400B4N, LR03, AAA, LR3, AM4M8A, AM4, S, MN2400, 824, E92, LR03N, 24A, K3A, R3, R03, 7526, UM4, Micro, V2500PX
Voltage	1.2V

Type	Order code	1+
2x 700mAh Batteries	51-1966	1.88
4x 700mAh Batteries	51-1967	3.63
4x 900mAh Batteries	51-1968	4.11
4x 1100mAh Batteries	51-1970	6.20
4x 1000mAh Batteries	51-1971	4.71

524015



Rechargeable AA Batteries x4 NiMH 1.2 V

These rechargeable batteries are ready to use straight out of the pack, so there is no time wasting by charging. They are ideal for digital cameras, model remote controls or MP3 players. With a high capacity and extremely high current rating means they last longer time after time.

Because in contrast to a disposable battery, you can recharge these about 1000 times. This helps protect the environment and saves you money.

Endurance batteries are still ready to go after long periods of disuse as their self discharge levels are much lower than conventional rechargeable batteries.

- Technology: NiMH
- Dimensions: (ø x H) 14mm x 50.5mm
- Voltage: 1.2V
- Size: AA
- Quick charge capability
- Low self discharge
- Available in **2300mAh, 2400mAh and 2600mAh** versions
- Supplied in **packs of 4**



Technical specification	
Battery size	AA
Battery technology	NiMH
Battery type comparison	HR6, HR06, CEF80, RB104358, LR06, AA, LR6, AAB4E, AM3, M, MN1500, 815, E91, LR6N, 15A, KAA, R6, R06, BA3058, U7524, UM3, Mignon, V1500PX
Dimensions	(ø x H) 14mm x 50.5mm
Rechargeable	Yes
Rechargeable battery capacity	2300mAh ; 2400mAh; 2600mAh
Type (manufacturer type)	Endurance AA
Voltage	1.2V

Type	Order code	1+
4x 2300mAh batteries	51-1933	7.86
4x 2600mAh batteries	51-1934	9.28
4x 2400mAh batteries	51-1935	8.15

524004



Rechargeable C Size Battery x2 NiMH 4000mAh 1.2V

Conrad Endurance combine the advantages of both alkaline and rechargeable batteries. Immediately after purchasing the battery, it is ready for use and need not be charged first.

Whether you are using a digital camera, MP3 player or remote control model, the large capacity and extremely high current performance ensures long battery times. Because in contrast to a disposable battery you can recharge your Conrad Endurance energy battery about 1000 times. This protects not only the environment but also your wallet.

- Type: LH400-CH50LF
- 4000mAh
- Fast charging
- Minimal Self discharge
- Nominal voltage: 1.2V
- Supplied in **packs of 2**



Technical specification	
51-1750	
Battery size	C
Battery technology	NiMH
Battery type comparison	HR14, LR15, C, AM2, L, MN1400, 814, E93, LR14N, 14A, KC, R14, BA3042, U7522, UM2, 1/2 Torcia
Dimensions	(ø x H) 25.5mm x 49.5mm
Rechargeable	Yes
Rechargeable battery capacity	4000mAh
Voltage	1.2V

Type	Order code	1+
C Cells x2	51-1750	8.57

523838

HINTS & TIPS

Batteries

Cell size	Equivalent types				
N	LR1	AM5	MN9100	-	LADY
AAA	LR03	AM4	MN2400	SO/HP16	MICRO
AA	LR6	AM3	MN1500	SP/HP7	MIGNON
C	LR14	AM2	MN1400	SP/HP11	BABY
D	LR20	AM1	MN1300	SP/HP2	MONO
PP3	6LR61	6AM6	MN1604	-	E-BLOCK



Rechargeable Size D battery x2 NIMH 8000mAh 1.2V

These Conrad Energy Endurance batteries are rechargeable and arrive pre-charged and ready to use. Additionally they hold their charge for longer than traditional NiMH rechargeable batteries and can be recharged up to 1,000 times.

NiMH (Nickel Metal Hydride) type batteries are favoured by demanding users as they are memory free and offer superb performance over traditional Ni-Cad rechargeable and also single use Alkaline types. These Conrad batteries are compatible with all good quality chargers and equipment types too.

These 8000mAh D Cell size batteries are powerful as well. With a large capacity and an extremely high current performance ensure long battery times.

- Type: LH800-DH611F
- 8000mAh
- Fast charging
- Minimal Self discharge
- Nominal voltage: 1.2V



Technical specification

51-1751	D
Battery size	NIMH
Battery technology	HR20, LR20, D, AM1, XL, MN1300, 813, E95, LR20N, 13A, KD, R20, LR20L, BA3030, U7520, UM1, Torcia
Battery type comparison	(ø x H) 33mm x 61mm
Dimensions	Yes
Rechargeable	8000mAh
Rechargeable battery capacity	MONO 8000mAh
Type (manufacturer type)	1.2V
Voltage	

Type	Order code	1+
D Cell Batteries x2	51-1751	16.37

523839



Rechargeable 9V battery x1 NiMH 200 mAh 8.4 V NIMH 9V BLOCK

Conrad Endurance energy, your energy provider, which combines the advantages of Alkaline batteries and rechargeable batteries. Immediately after purchasing the battery, it is ready for use and need not be charged first.

Whether it is for use with a digital camera, MP3 player or remote control model: The large capacity and an extremely high current performance will ensure long battery times - and so on. Because in contrast to a disposable battery you can recharge your Conrad Endurance energy battery about 1000 times. This protects not only the environment but also your wallet.

Using this Conrad Endurance battery for even longer periods? Not an issue, because you can forget about the self-discharge as in other well-known conventional batteries.

And best of all: With your Conrad Endurance energy you get the favourable Conrad prices for which it is usually known.

- Type: LH020-H7C(LF)
- 200mAh
- Minimum self discharge
- Nominal voltage: 8.4V
- Weight approx: 40g



Technical specification

51-1749	9V
Battery size	NIMH
Battery technology	HR6F22, HR9V, HR22, 6LR21, 6LR21, 6AM6, 6LP3146, MN1604, A1604, E Block, LR22, 522, 6LF22, 1604A, K9V, 6R21, 6R22, BA3090/U, 6F22, PP3HP, 006P, AM6F, 6LF62, HP3, M1604, 4022, BLOC, CLR6, KA9, ND65V, U9VL-J-P
Battery type comparison	25.5(W) x 48.5(H) x 16(D)mm
Dimensions	Yes
Rechargeable	200mAh
Rechargeable battery capacity	NIMH 9V BLOCK
Type (manufacturer type)	8.4V
Voltage	

Type	Order code	1+
9V Block (PP3)	51-1749	3.32

523837



ReCyko+ NiMH AA Card of 4 (3+1) Batteries

These GP ReCyko+ rechargeable batteries are ready to use straight from the packet. They will stay 90% charged for 6 months after charging. This effectively makes them as convenient to use as disposable batteries, but with the power and savings of a rechargeable.

The batteries are ideal for digital cameras, PDAs; CD and MP3, players, shavers, electric toothbrushes, toys and games

- Instant use and re-useable
- Can be recharged up to 1000 times
- Environmentally friendly and energy saving
- High capacity



- Good for high drain applications
- Brand: ReCyko+
- Size: AA
- Model: GP210AAHCB
- Voltage: 1.2V
- Capacity: 2050mAh
- Dimensions: 15,5(L) x50,5(W)
- Supplied in packs of four, 3 plus 1 FREE

Technical specification

Type:	Rechargeable Nickel Metal Hydride Cylindrical Cell
Dimension:	14.5mm Diameter; 50.5(H)mm
Applications:	Recommended discharge current 200 to 6000mA
Nominal Voltage:	1.2V
Capacity:	Nominal, 2000mAh
Charge Retention:	80% of nominal capacity after cell storage at 20°C for 6months 75% of nominal capacity after cell storage at 20°C for 12months
Charging Condition:	200mA for 16 hrs at 20°C
Fast Charge:	1000mA to 2000mA
Service Life:	up to 1000 cycles (IEC standard)
Weight:	30.0g

Type	Order code	1+
ReCyko+ AA Batteries	18-4002	5.56

537528



ReCyko Rechargeable AAA and AA Batteries

All the benefits of alkaline in a rechargeable battery. GP ReCyko batteries combine the power and benefits of a rechargeable battery with the convenience of a ready to use alkaline battery.

Ready to use from the packet, they will keep 90% of their charge on the shelf for 6 months and 85% for up to 12 months, unlike normal NiMH batteries which will discharge fully within a few weeks. 'Which Magazine' gave these batteries a glowing review.



- Instant use - Combines shelf life of alkaline with the re-usability of a rechargeable
- Environmentally friendly
- Re-usable - 1000 recharge cycle life
- High capacity - 4 times longer lasting than alkaline in digital camera
- Good for high, mid and low drain applications
- Once recharged they will hold 90% of their charge up to 6 months
- Stay charged for 12 months if left unused
- Maximum capacity 2000mAh
- Scored 100% in the 'Which' magazine reviews
- Supplied in packs of 4

Technical specification

Type:	Rechargeable nickel metal hydride cylindrical cell
Nominal voltage:	1.2V
Weight:	30.0g
Internal resistance:	Average 21mΩ upon fully charged
Ambient temperature range	Standard Charge: 0°C to +45°C Fast Charging: -10°C to +45°C Discharge: -20°C to +50°C Storage: -20°C to 3+0°C

Type	Order code	1+
AA Re-kyco batteries	18-2128	7.64

500130



Rechargeable Batteries - AA, AAA, C Cell, PP3 Batteries

A range of nickel metal hydride rechargeable batteries in the most popular and standard sizes.

- Suitable for use with almost any battery chargers
- Suitable for all applications, cameras, PDAs, MP3 and DVD players
- Excellent performance, reliable and durable
- Higher capacities compared to nickel cadmium types
- No special disposal requirements
- Nominal voltage: cylindrical cells: 1.2V, PP3: 8.4V
- Available in AA, AAA C cell and PP3



Technical specification

Cell size	Nominal capacity (mAh)	Dimensions (mm)	Weight (g)	Standard charge for 14 hours (mA)	Order code
AAA	800	10.1 x 44	12.5g	80mA	18-4152
AA	2000	14.2 x 50	28.2g	200mA	18-4154
AA	2400	14.2 x 50	29.5g	240mA	18-4156
C cell	4500	25.2 x 49	82.5g	450mA	18-4160
PP3 type	200	26.3 x 48.1	54g	20.0mA	18-4168

Type	Order code	1+	20+	100+
AAA 1.2V 800mAh	18-4152	1.12	0.83	0.757
AA 1.2V 2000mAh	18-4154	2.16	2.06	1.66
AA 1.2V 2400mAh	18-4156	2.37	2.15	1.85
PP3 type 9V 200mAh	18-4168	3.09	2.72	2.44

080861

DURACELL®

Rechargeable Batteries

Duracell ActiveCharge is a rechargeable battery with improved consumer benefits. This low self-discharge battery comes "Ready Charged" and can immediately be used and stays charged longer than standard rechargeable batteries.

- Pre-charged and work straight from the pack
- Duracell rechargeable batteries offer you the quality and dependability
- Compatible with all battery chargers - up to 1000 charges
- Ideal for all your high drain devices
- Stays charged longer than standard rechargeable
- Charge 100's of times for thousands of photos
- Great for the environment
- Supplied in **packs of 4**



Type	Order code	1+	5+
AA 2000mAh	18-4700	9.29	8.63
AAA 800mAh	18-4701	8.33	7.74

123478

DURACELL®

Supreme Rechargeable C, D and PP3 Batteries



Duracell Supreme rechargeable NiMH batteries offer you the quality and dependability you've come to trust from Duracell. They are ideal for use in digital cameras and high drain devices.

- Up to 1000 charges
- Compatible with all battery chargers
- Available in C, D and 9V (PP3) packs

Type	Order code	1+	5+
C cell 2200mAh	18-4722	5.30	
D cell 2200mAh	18-4723	8.62	8.04
9V 150mAh	18-4724	6.83	6.26

123480



Endurance Tagged Batteries

Immediately after purchasing these batteries, they are ready for use and do not need to be charged first. The large capacity and an extremely high current performance ensure long battery times.

In contrast to a disposable battery, you can recharge your energy Endurance Conrad about 1000 times. This not only protects the environment but also your wallet. Even longer periods without use are not an issue with the Endurance, because they will hold their charge longer, unlike other well known conventional batteries.

These batteries are supplied with Z-soldering tags and a flat positive terminal for the compilation of rechargeable battery packs for cordless phones, models, cordless drills and other industrial solutions etc.

The batteries are all Conrad branded. They are all great batteries for when you want performance and reliability with the Conrad reputation.

- Ready to use immediately
- Minimum self-discharge
- Technology: NiMH
- Voltage: 1.2V
- Low self discharge
- Available in **AAA, AA and sub C**
- Supplied **singularly with Z-soldering tags**



Technical specification			
Order code	51-2075	51-2076	51-2077
Battery size	AAA	AA	Sub-C
Battery technology	NiMH	NiMH	NiMH
Dimensions (ø x L)	10.5mm x 44.5mm	14mm x 50.2mm	22.5mm x 43mm
Rechargeable	Yes	Yes	Yes
Rechargeable battery capacity	800mAh	2000mAh	3000mAh
Soldering lug	Yes	Yes	Yes
Manufacturer type	Endurance Micro ZLF	Endurance Mignon ZLF	Endurance SUB C ZLF
Voltage	1.2V	1.2V	1.2V
Weight	14g	29g	66g

Type	Order code	1+
AAA 750mAh FT-1Z	51-2075	1.52
AA 2000mAh FT-1Z	51-2076	2.13
Sub C 3000mAh FT-1Z	51-2077	3.60

524049



Rechargeable NiMH Tagged Battery



A range of nickel metal hydride rechargeable cells.

- Industrial sizes
- Can be made up into battery packs
- Please note that the plain cells do not have a raised pip
- Available in **AA, AAA, C cell, D cell PP3 batteries**

For suitable PCB mounting clips see **18-3500/5**.

Technical specification					
Cell size	Nominal capacity (mAh)	Dimensions Dia. x Height (mm)	Weight (g)	Standard charge for 14 hours (mA)	Order code
AAA	700	10.5 x 43.7	13	70	18-3862
AAA plain	700	10.5 x 43.7	13	70	18-3902
1/3AA	250	14.5 x 16.6	7	25	18-3864
1/3AA plain	250	14.5 x 16.6	7	25	18-3904
2/3AA	600	14.5 x 28.7	13	60	18-3866
AA	1300	14.4 x 48.2	25	130	18-3870
AA	1700	14.5 x 49.2	27	170	18-3872
AA	1800	14.5 x 49.2	27	170	18-3913
2/3AF	1000	17.0 x 28.7	22	100	18-3876
4/5AF	2100	17.0 x 43.0	32	180	18-3878
AF	2500	17.0 x 50.2	39	250	18-3882
Sub-C	2200	23.0 x 43.0	55	220	18-3890
Sub-C	3000	23.0 x 43.0	61	300	18-3892

Type	Order code	1+	10+	100+	500+
AA Tagged	18-3872	2.13	2.03		
AA 1800 Plain	18-3913	2.05	1.79	1.59	1.39
2/3AF Tagged	18-3876	2.03	1.88		
4/5AF Tagged	18-3878	2.55	2.40		
AF Tagged	18-3882	2.81			
Sub-C Tagged	18-3890	3.64	3.07		
Sub-C Tagged	18-3892	4.21	3.96		

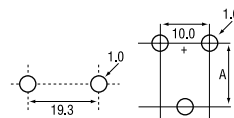
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NiMH Battery Cells Rechargeable

These miniature PCB mounting batteries employ Varta's advanced nickel metal hydride (Ni-MH) technology.

- Contains 0% cadmium, 0% lead, and 0% mercury
- Suitable drop in replacements for nickel cadmium cells



Technical specification							
Voltage	Capacity (mAh)	Height (mm)	Length (mm)	Width (mm)	Weight (g)	Varta Part No.	Pin config Order code
2.4	150	14.1	25.6	11.8	12	2/V150H	3 18-1565
3.6	16	11.5	11.5	3.1	1.3	3/V15H	2 18-1569
3.6	80	15.5	15.5	6	4	3/V80H	3 18-1570
3.6	150	14.1	25.6	17.7	18	3/V150H	3 18-1575
4.8	150	14.1	25.6	23.6	24	4/V150H	3 18-1580
1.2	600	6.4	34.1	24.1	17	V600HR	3 18-1612

Type	Order code	1+	10+
2.4V 150mAh Battery	18-1565	2.81	2.57
3.6V 15mAh Battery	18-1569	3.15	3.10
3.6V 80mAh Battery	18-1570	3.17	2.69
3.6V 150mAh Battery	18-1575	5.00	4.61
4.8V 150mAh Battery	18-1580	7.55	6.46

062571

Free Delivery*

on all orders over £30 (excl. VAT)
(UK mainland only)

* See Terms & Conditions for full details

Lithium Polymer



10C LiPo Batteries with BEC Connector

Lithium Polymer (LiPo) flight batteries with a 10C maximum safe continuous discharge rate.

- Available in 800 or 1000mAh capacities
- BEC connectors
- XH balancer plug-in system (not 3.7V model)
- Supplied complete with operating instructions



Technical specification

Balancer plug-in system	51-1633	51-1629	51-1628
Battery technology	LiPo	XH	XH
Capacity (rechargeable battery)	10C	10C	10C
Connector system	BEC	BEC	BEC
Continuous discharge	10A	12A	10A
Dimensions (L x W x H)	63 x 32 x 8mm	53.5 x 30 x 14.5mm	65 x 34 x 12mm
Max. charging current	1A	2C	1C
Rechargeable battery capacity	1000mAh	800mAh	1000mAh
Voltage	3.7V	7.4V	7.4V
Weight	30g	45g	50g

Voltage	Capacity	Order code	1+
3.7V	1000mAh	51-1633	5.61
7.4V	800mAh	51-1629	7.04
7.4V	1000mAh	51-1628	9.38

523721



LiPoBatteries (30C)/XH

The Conrad Energy LiPoBatteries (30C)/XH are from the new Conrad Energy Lipo Series. With a 30C maximum safe continuous discharge rate and XH balancer plug-in system, these Li-Polymer batteries are perfectly suited for drives with normal to high power consumption.

- NEW! Conrad Energy Lipo Series
- Li-Polymer battery
- High current loading
- Available from 500-5000mAh



Voltage	Order code	1+
450mAh rechargeable battery capacity		
7.4V	50-4831	4.37
11.1V	50-4832	6.52
800mAh rechargeable battery capacity		
7.4V	50-4853	8.20
11.1V	50-4833	12.26
1200mAh rechargeable battery capacity		
7.4V	50-4834	11.73
11.1V	50-4835	18.11
1800mAh rechargeable battery capacity		
7.4V	50-4836	17.02
11.1V	50-4837	27.14
2200mAh rechargeable battery capacity		
7.4V	50-4838	20.75
11.1V	50-4839	28.89
14.8V	50-4840	38.97
2700mAh rechargeable battery capacity		
11.1V	50-4854	34.90
14.8V	50-4841	46.53
18.5V	50-4842	58.17
22.2V	50-4843	69.40
3300mAh rechargeable battery capacity		
11.1V	50-4844	45.37
14.8V	50-4845	56.89
18.5V	50-4846	71.11
22.2V	50-4847	85.33
4000mAh rechargeable battery capacity		
11.1V	50-4848	50.83
14.8V	50-4849	67.78
18.5V	50-4850	84.70
22.2V	50-4851	101.65
4600mAh rechargeable battery capacity		
11.1V	50-4852	58.48
14.8V	50-4826	77.95
18.5V	50-4827	97.41
22.2V	50-4828	116.89
5000mAh rechargeable battery capacity		
11.1V	50-4829	65.55
14.8V	50-4830	84.43

520528

IMPORTANT: PLEASE NOTE THAT THE LiPo-BATTERIES MAY ONLY BE CHARGED WITH THE APPROPRIATE LiPo-BALANCER CHARGERS.

Lead Acid

Energys

Cyclon Sealed Lead Acid Batteries

A range of exceptionally high performance 2V cells and monoblocs designed for use in applications particularly where high rate, high temperature and fast charging are required.

- Suitable for harsh environments from -65°C to +80°C
- 15 years design life
- Fast charge capability
- Maximum assembly variations
- No loose electrolyte
- Shock and vibration resistant
- 2 years storage life at 25°C Monoblocs
- Standard voltage options
- Temperature range -40°C to +40°C
- 10 year design life
- Fast charge capability
- No loose electrolyte
- Integral fixing holes
- 2 years storage life at 25°C



Technical specification

Type	Voltage	Discharge	Terminals	Dimensions; H x Dia.	Weight	Mfrs.part	Order code
D Cell	2V, 2.5Ah	400A	4.75mm tags	67.3 x 35.5mm	0.2kg	147-180	18-0506
TD Cell	2V, 4.5Ah	400A	4.74 x 0.64mm tags	103 x 34mm	0.3kg	174-828	18-0507
X Cell	2V, 5Ah	570A	6.35mm tags	80.3 x 46mm	0.4kg	147-181	18-0508
E Cell	2V, 8Ah	665A	6.35 x 0.64mm tags	109 x 44mm	0.6kg	174-830	18-0509
BC Cell	2V	1335A	M8 +M6 stud	174 x 65mm	1.7kg	147-183	18-0510
E Cell	2V	10hr	F2 Spade	34.3x61.2mm	176.9	9859-0004	18-9050

Type	Voltage	Discharge	Terminals	Dimensions; H x W x H	Weight	Mfrs.part	Order code
Monobloc	6V, 2.5Ah	200A	4.75 x 0.64mm tags	113 x 45 x 70mm	0.52kg	427-3369	18-0511
Monobloc	6V, 2.5Ah	200A	4.75 x 0.64mm tags	139 x 54 x 77mm	0.98kg	427-3369	18-0512
D Cell	4V	n/a	F1 Spade	n/a	0.36kg	9819-0010	18-9051
D Cell	12V	n/a	F1 Spade	n/a	1.08kg	9819-0020	18-9052
X Size	4V	n/a	F2 Spade	n/a	0.72kg	9809-0010	18-9053
X Size	12V	n/a	F2 Spade	n/a	2.22kg	9809-0020	18-9054
E Size	4V	n/a	F2 Spade	n/a	0.96kg	9859-0010	15-9055
E Size	6V	n/a	F2 Spade	n/a	1.41kg	9859-0012	18-9056
E Size	12V	n/a	F2 Spade	n/a	2.86kg	9859-0020	18-9057

Type	Order code	1+
2V 2.5Ah D Cell	18-0506	5.54
2V 4.5Ah TD Cell	18-0507	6.89
2V 5Ah X Cell	18-0508	8.26
Cyclon 2V 8Ah	18-0509	10.50
2V 25Ah BC Cell	18-0510	40.46
6V 2.5Ah Monobloc	18-0511	13.16
6V 5Ah Monobloc	18-0512	17.17
Cyclon Individual Cell 2V 8Ah	18-9050	11.67
Cyclon Monoblocs 4V 2.5Ah	18-9051	11.76
Cyclon Monoblocs 12V 2.5Ah	18-9052	26.48
Cyclon Monoblocs 4V 5Ah 1 X 2	18-9053	15.26
Cyclon Monoblocs 12V 5Ah 2 X 3	18-9054	37.02
Cyclon Monoblocs 4V 8Ah 1 X 2	18-9055	17.15
Cyclon Monoblocs 6V 8Ah 1 X 3	18-9056	21.26
Cyclon Monoblocs 12V 8Ah 2 X 3	18-9057	42.88

073326

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VOLTCRAFT®
Multi Charger

- NiMH
- Lead Acid
- LiPo
- Li-ion
- LiFe



Fast Delivery

All orders for in-stock items received by
7pm – Monday to Friday are despatched the same day



Electric Vehicle Batteries



A range of high performance sealed, non-spillable, maintenance free, valve regulated recombinant batteries. These deep cycle batteries have been designed to deliver maximum capacity within five cycles. Ideal for use in electric vehicles.

- Absorbent glass mat construction
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- High deep-discharge capability
- Exceptional durability and deep cycle ability
- Ideal for repeat cycling
- Excellent for long discharges
- Low self-discharge, long storage life
- Vibration and shock-resistant
- Threaded insert or faston terminals as standard

Rapid is an official distributor of CamdenBoss products. The products listed here are those that Rapid hold in stock *but we have access to many more, including the company's complete range of terminal blocks. Click here to make an enquiry about ordering CamdenBoss terminal blocks, connectors and enclosures.*

Technical specification

Voltage	Capacity (20hrs)	Terminal	Dimensions (L x W x H)	Weight	Mfrs. part no	Order code
12V	12Ah	6.3mm	152 x 99 x 96mm	4kg	BEV120120	18-1380
12V	17Ah	M5 bolt	181 x 76 x 167mm	5.5kg	BEV120180	18-1381
12V	24Ah	M5 bolt	166 x 175 x 125mm	8.8kg	BEV120240	18-1382
12V	33Ah	M6 bolt	195 x 130 x 168mm	11kg	BEV120330A	18-1387
12V	40Ah	M6 bolt	198 x 167 x 157mm	13.0kg	BEV120400	18-1384
12V	54Ah	M6 bolt	229 x 138 x 213mm	18.6kg	BEV120550	18-1385
12V	70Ah	M8 bolt	349 x 168 x 175mm	21.2kg	BEV120700	18-1386

Type	Order code	1+	10+	20+	40+
12V 12Ah	18-1380	40.46	37.31		
12V 17Ah	18-1381	45.69	41.98	40.75	39.51
12V 54Ah	18-1385	73.08			
12V 70Ah	18-1386	161.31	148.24	143.88	139.52
12V 33Ah	18-1387	81.49	74.88	72.68	70.47

081110



SLA Battery Rechargeable



A wide range of maintenance-free, rechargeable lead acid batteries.

- Offered in a wide variety of voltages and capacities
- Unique style of construction of batteries ensure no electrolyte leakage
- Connection is by tab terminals up to 12Ah
- Higher capacities have bolt terminals
- May be used in standby or cyclic applications
- 1200 charge/discharge cycles are achievable when employed in cyclic applications
- Typical uses include memory back-up systems, test equipment, fire and security alarms

Application notes are available upon request.

Technical specification

Voltage	Capacity (20hrs)	Discharge (20hrs)	Dimensions L x W x D	Weight	Yuasa code	Order code
6V	1.2Ah	60mA	97 x 25 x 58mm	0.34kg	NP1.2-6	18-0505
6V	2.8Ah	140mA	134 x 34 x 67mm	0.60kg	NP2.8-6	18-0515
6V	4.0Ah	200mA	70 x 47 x 109mm	0.90kg	NP4-6	18-0520
6V	10.0Ah	500mA	151 x 50 x 101mm	2.0kg	NP10-6	18-0540
6V	12.0Ah	600mA	151 x 50 x 101mm	2.06kg	NP12-6	18-0545
12V	1.2Ah	60mA	97 x 48 x 58mm	0.60kg	NP1.2-12	18-0605
12V	2.0Ah	100mA	150 x 20 x 89mm	0.70kg	NP2.0-12	18-0615
12V	2.1Ah	105mA	178 x 34 x 67mm	0.90kg	NP2.1-12	18-0610
12V	2.3Ah	115mA	178 x 34 x 64mm	0.94kg	NP2.3-12	18-0618
12V	2.8Ah	140mA	134 x 67 x 67mm	1.15kg	NP2.8-12	18-0620
12V	3.2Ah	160mA	134 x 67 x 67mm	1.4kg	NP3.2-12	18-0622
12V	4.0Ah	200mA	90 x 70 x 106mm	1.57kg	NP4-12	18-0625
12V	7.0Ah	350mA	151 x 65 x 98mm	3.0kg	NP7-12	18-0635
12V	12.0Ah	600mA	151 x 98 x 98mm	4.0kg	NP12-12	18-0640
12V	17.0Ah	850mA	181 x 76 x 167mm	6.0kg	NP17-12	18-0642
12V	24.0Ah	1.2A	166 x 175 x 125mm	8.65kg	NP24-12B	18-0655
12V	38.0Ah	1.9A	197 x 165 x 170mm	14.2kg	NP38-12	18-0660

Type	Order code	1+	5+	25+
6V				
1.2	18-0505	9.45	8.08	7.18
2.8	18-0515	9.51	9.09	8.55
4.0	18-0520	8.71	7.45	6.60
10.0	18-0540	16.00	13.73	12.20
12.0	18-0545	15.31	13.20	11.62
12V				
1.2	18-0605	9.29	7.93	6.98
2.0	18-0615	12.46	10.66	9.39
2.1	18-0610	10.88	9.29	8.13
2.3	18-0618	12.46	10.66	9.39
2.8	18-0620	12.46	10.66	9.39
3.2	18-0622	13.20	11.20	9.93
4.0	18-0625	14.78	12.57	11.09
7.0	18-0635	10.75		
12.0	18-0640	29.57	25.35	22.60
17.0	18-0642	43.83	38.54	34.31
24.0	18-0655	54.91	46.46	41.19

062268



SLA Rechargeable Batteries



A range of sealed rechargeable lead acid batteries.

- Maintenance-free
- Sealed no leak/spill proof construction
- Allows safe operation in any position
- Lower self discharge
- Greater vibration resistance
- Heavy duty, no corrosion terminals
- Rugged ABS plastic case and cover
- **18-1716** is fitted with M6 bolt terminals
- Approved for transport by air. **D.O.T., I.A.T.A., F.A.A.** and **C.A.B.** certified
- **UL** recognised under file number MH 20845

Technical specification

Mfrs part	Voltage	Capacity	Discharge	Dimensions	Weight	Order code
PS-610	6V	1.0Ah	50mA	51(L) x 42(W) x 51(H)mm	0.3kg	18-1700
PS-612	6V	1.3Ah	65mA	97(L) x 24(W) x 51(H)mm	0.3kg	18-1701
PS-630	6V	3.0Ah	150mA	134(L) x 34(W) x 60(H)mm	0.7kg	18-1702
PS-640	6V	4.5Ah	225mA	70(L) x 48(W) x 102(H)mm	0.9kg	18-1703
PS-650	6V	5.0Ah	250mA	67(L) x 67(W) x 96(H)mm	0.9kg	18-1704
PS-670	6V	7.0Ah	350mA	151(L) x 34(W) x 94(H)mm	1.4kg	18-1705
PS-682	6V	8.0Ah	400mA	99(L) x 56(W) x 118(H)mm	1.5kg	18-1706
PS-6100	6V	12.0Ah	600mA	151(L) x 51(W) x 95(H)mm	2.1kg	18-1707
PS-1208	12V	0.8Ah	40mA	96(L) x 25(W) x 62(H)mm	0.35kg	18-1708
PS-1212	12V	1.2Ah	60mA	97(L) x 42(W) x 51(H)mm	0.6kg	18-1709
PS-1221	12V	2.1Ah	100mA	178(L) x 34(W) x 63(H)mm	1.0kg	18-1710
PS-1230	12V	3.4Ah	250mA	134(L) x 67(W) x 60.5(H)mm	1.9kg	18-1711
PS-1242	12V	4.5Ah	250mA	90(L) x 70(W) x 101(H)mm	1.7kg	18-1712
PS-1270	12V	7.0Ah	350mA	151(L) x 65(W) x 94(H)mm	2.6kg	18-1713
PS-12120	12V	12.0Ah	600mA	151(L) x 98(W) x 94(H)mm	4.1kg	18-1714
PS-12170	12V	17.0Ah	900mA	181(L) x 76(W) x 167(H)mm	6.4kg	18-1715
PS-12240	12V	24.0Ah	900mA	166(L) x 175(W) x 125(H)mm	9.0kg	18-1716

Type	Order code	1+	10+	20+
6V 1.0AH	18-1700	3.61	3.30	2.93
6V 1.3AH	18-1701	3.69	3.37	2.99
6V 3.0AH	18-1702	4.48	4.09	3.64
6V 4.5AH	18-1703	4.99	4.56	4.05
6V 7.0AH	18-1705	7.71	7.04	6.26
6V 8.0AH	18-1706	10.96	10.01	8.90
6V 10.0AH	18-1707	12.59	11.51	10.23
6V 0.8AH	18-1708	9.87	9.02	8.02
12V 1.2AH	18-1709	6.37	5.82	5.17
12V 2.1AH	18-1710	8.26	7.55	6.71
12V 3.4AH	18-1711	9.09	8.30	7.38
12V 4.5AH	18-1712	10.17	9.29	8.26
12V 7.0AH	18-1713	12.75	11.65	10.36
12V 12.0AH	18-1714	22.52	20.58	18.29
12V 17.0AH	18-1715	34.26	31.31	27.83
12V 24.0AH	18-1716	47.11	43.04	38.26

071676



SLA Batteries



A range of sealed 4, 6 and 12V lead acid batteries that are completely maintenance free.

- Completely maintenance free, sealed construction
- Increased durability and deep cycle ability for heavy demand applications
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5psi
- Multi-position usage
- Low self discharge
- FAA and IATA approved as nonhazardous

Technical specification

Voltage	4V, 6V and 12V
Design life	5 years
Operating temperature	-20°C to +50°C
Grid alloy	Calcium/tin lead alloy
Plates	Flat pasted
Separator	Absorbant glass mat
Terminal	Various types, epoxy sealed by extended mechanical paths
Container/cover	ABS
Charge voltage	Float 2.27-2.30 VPC +25°C
Electrolyte	Sulphuric acid

Voltage	Dimensions: L x W x H	Weight	Mfrs. part	Order code
4V, 4.5Ah	47 x 47 x 101mm	0.58kg	HZS04-4.5	18-1138
4V, 9Ah	102 x 44 x 95mm	1kg	HZS04-9	18-1139
6V, 1.3Ah	98 x 25 x 52mm	0.32kg	HZS04-9	18-1140
6V, 3.2Ah	134 x 34 x 60mm	0.73kg	HZS06-3.2	18-1141
6V, 7.2Ah	150 x 34 x 94mm	1.27kg	HZS06-7.2	18-1143
6V, 12Ah	151 x 50 x 93.5mm	2kg	HZS06-12	18-1145
12V, 0.8Ah	96 x 25 x 62mm	0.37kg	HZS12-0.8	18-1146
12V, 1.3Ah	96.5 x 45.0 x 53mm	0.58kg	HZS12-1.3	18-1147
12V, 2.2Ah	177.5 x 34 x 60mm	1.01kg	HZS12-2.2	18-1149
12V, 2.9Ah	78 x 55 x 98mm	1.17kg	HZS12-2.9	18-1153
12V, 3.3Ah	133.5 x 67 x 61mm	1.4kg	HZS12-3.3	18-1155
12V, 14Ah	150 x 97 x 94mm	4.25kg	HZS12-14	18-1168

Type	Order code	1+	10+	20+	40+
4V, 4.5Ah	18-1138	8.29	7.93	7.41	6.64
4V, 9Ah	18-1139	8.50			
6V, 1.3Ah	18-1140	5.06	4.68	4.29	3.81
6V, 3.2Ah	18-1141	5.34	5.13	4.70	4.57
6V, 7.2Ah	18-1143	8.67	8.29	8.01	7.61
6V, 12Ah	18-1145	12.34	11.71	11.08	10.44
12V, 0.8Ah	18-1146	9.93	9.68	9.30	8.90
12V, 1.3Ah	18-1147	7.01	6.78	6.36	5.57
12V, 2.2Ah	18-1149	7.59	7.42	7.20	6.64
12V, 2.9Ah	18-1153	9.93	9.68	9.30	8.90
12V, 3.3Ah	18-1155	10.82	10.55	10.28	9.75
12V, 14Ah	18-1168	23.92	22.10	21.29	20.37

07335



6V and 12V Sealed Lead Acid Monobloc Batteries



An extensive range of multi-purpose batteries that are designed for excellent performance and deep discharge applications.

- Lower initial cost when compared to gelled electrolyte cell
- Ideal for starting and stationary applications
- Superior performance for shorter duration
- Higher current discharges
- Smaller size battery can be used for higher rate discharges
- Ideal for medical, solar, navigation aids, cellular radio stations, electric power systems alarms and security and more
- CE approved

Please note: If you require battery for a wheelchair, please consider the HZY series of batteries. (Rapid code 18-1120 to 18-1130 inclusive).

Technical specification

Voltage	6 and 12V
Design life	12 years
Operating temperature	-10°C to +45°C
Grid alloy	Calcium/tin lead alloy
Plates	Flat pasted
Separator	Absorbant glass mat
Terminal	Various types
Container/cover	ABS
Charge voltage	Float 2.27-2.30 VPC 20°C
Electrolyte	Sulphuric acid

Voltage	Dimensions: L x W x H	Weight	Mfrs. part	Order code
6V, 110Ah	193 x 168 x 205mm	16kg	HZB6-110	18-1169
6V, 160Ah	298 x 171 x 226	26	HZB6-160	18-1170
12V, 18Ah	181 x 76 x 167	6.25	HZB12-18	18-1172
12V, 26Ah	166 x 176 x 126	9.2	HZB12-26	18-1173
12V, 28Ah	166 x 125 x 175	9.4	HZB12-28	18-1174
12V, 33Ah	195 x 130 x 160	10.9	HZB12-33	18-1175
12V, 44Ah	197 x 165 x 170	13.6	HZB12-44	18-1176
12V, 55Ah	228 x 137 x 207	17.5	HZB12-55	18-1177
12V, 70Ah	259 x 168 x 208	21.5	HZB12-70	18-1178
12V, 80Ah	259 x 168 x 208	23.7	HZB12-80	18-1179
12V, 100Ah	305 x 168 x 208	30	HZB12-100	18-1181
12V, 110Ah	332 x 174 x 213	32.2	HZB12-110	18-1182
12V, 120Ah	408 x 176 x 227	35	HZB12-120	18-1183
12V, 135Ah	340 x 173 x 280	39.6	HZB12-135	18-1185
12V, 150Ah	482 x 170 x 242	44.2	HZB12-150	18-1187
12V, 160Ah	530 x 209 x 214	52.2	HZB12-160	18-1189
12V, 200Ah	520 x 240 x 220	66	HZB12-200	18-1191

Type	Order code	1+	3+
6V, 110Ah	18-1169	99.44	94.12
6V, 160Ah	18-1170	134.22	128.58
12V, 18Ah	18-1172	34.80	31.00
12V, 26Ah	18-1173	51.86	48.69
12V, 28Ah	18-1174	55.65	51.55
12V, 33Ah	18-1175	60.23	56.77
12V, 40Ah	18-1176	76.20	70.83
12V, 55Ah	18-1177	98.66	91.06
12V, 70Ah	18-1178	129.00	119.52
12V, 80Ah	18-1179	136.61	130.49
12V, 100Ah	18-1181	157.74	152.87
12V, 110Ah	18-1182	166.96	163.79
12V, 116Ah	18-1183	185.63	178.34
12V, 135Ah	18-1185	222.75	214.57
12V, 150Ah	18-1187	228.92	218.39
12V, 160Ah	18-1189	260.55	242.84
12V, 200Ah	18-1191	301.01	280.79
Strap for HZB12-135	18-1197	8.65	
Strap for HZB12-120	18-1203	18.35	
Strap for HZB12-135	18-1204	10.69	
Strap for HZB12-110	18-1206	11.55	
Strap for HZB12-135	18-1207	2.97	

07345



LP Series Sealed Lead Acid Battery SLA General Application Batteries

A wide range of Leoch 6V and 12V sealed lead acid batteries that are maintenance free, easy to handle, rugged and economical.

The Leoch LP and LPC series of SLA batteries, can be utilised in a wide variety of applications including electric vehicles, UPS backups, computer systems, industrial and medical equipment.

The Leoch replacement battery is a high quality battery designed to deliver power when you need it providing exceptional performance with a good service life in all applications.

Applications include: Uninterruptible power supply (UPS), electric power system (EPS), emergency backup power supply, emergency light, railway signal, aircraft signal, alarm and security system, electronic apparatus and equipment, communication power supply, DC power supply and auto control systems.

For the battery terminal options, please click on this link

- Uses oxygen recombination technology that is maintenance free
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extends cycle life and prevents micro short circuits
- ABS material: increases the strength of battery container
- High purity raw material: ensures low self discharge rate
- Silver-coated copper terminals (T1, T2 terminal), brass insert terminals, and lead terminals to improve the electric conductivity
- Approvals ISO 14001, ISO/TS 16949, ISO 9001:2000, VDS, IEC International Electro technical, CE, Russian PCT Certificate, TLC Certification, FCC



...where price meets quality

Technical specification

Model	Voltage	Capacity	Length	Width	Height	Weight	Terminal	Order code
LP6-1.0	6V	1AH	51mm	42mm	57mm	0.25kg	T1	18-0846
LP6-1.2	6V	1.2AH	97mm	24mm	57.5mm	0.29kg	T1	18-0847
LP6-3.2	6V	3.2AH	134mm	34mm	66mm	0.67kg	T1	18-0848
LP6-4.0	6V	4AH	70mm	47mm	106mm	0.76kg	T1	18-0849
LP6-5.0	6V	5AH	169mm	35mm	74mm	0.98kg	T1	18-0850
LP6-7.0	6V	7AH	151mm	34mm	100mm	1.1kg	T1	18-0851
LP6-10	6V	10AH	151mm	51mm	100mm	1.57kg	T1	18-0852
LP6-12	6V	12AH	151mm	51mm	100mm	1.8kg	T1	18-0853
LP6-12	6V	12AH	151mm	51mm	100mm	1.75kg	T1	18-0887
LP12-1.2	12V	1.2AH	97mm	43mm	58mm	0.57kg	T1	18-0854
LP12-2.3	12V	2.3AH	178mm	35mm	66mm	0.96kg	T1	18-0855
LP12-2.9	12V	2.9AH	79mm	56mm	105mm	1.1kg	T1	18-0856
LP12-3.2	12V	3.2AH	134mm	67mm	66.5mm	1.35kg	T1	18-0857
LP12-4.0	12V	4AH	90mm	70mm	107mm	1.4kg	T1	18-0858
LP12-5.0	12V	5AH	151mm	53mm	99mm	1.75kg	T1	18-0859
LP12-5.4	12V	5.4AH	90mm	70mm	107mm	1.68kg	T1	18-0860
LP12-7.0S	12V	7AH	151mm	65mm	99mm	2.18kg	T1	18-0861
LP12-7.0	12V	7AH	151mm	65mm	99mm	2.18kg	T2	18-0862
LP12-10H	12V	10AH	151mm	65mm	117mm	3.2kg	T1	18-0863
LP12-12	12V	12AH	151mm	98mm	101mm	3.6kg	T2	18-0864
LP12-18	12V	18AH	181.5mm	77mm	167.5mm	5.32kg	T3	18-0865
LP12-20	12V	20AH	181.5mm	77mm	167.5mm	5.78kg	T6	18-0866
LP12-24	12V	24AH	166mm	175mm	125mm	7.2kg	T6	18-0867
LP12-38	12V	39.5AH	197mm	165mm	170mm	12.2kg	T6	18-0868
LP12-200	12V	208AH	522mm	240mm	224mm	61kg	T11	18-0869
LP12-250	12V	260AH	522mm	268mm	226mm	73kg	T11	18-0870

Type	Order code	1+	10+	25+
LP6-1.3, 6V 1.3Ah	18-0847	3.77	3.59	3.48
LP6-3.2, 6V 3.2Ah	18-0848	4.48	4.27	4.14
LP6-4.0, 6V 4.0Ah	18-0849	3.75	3.57	3.46
LP6-5.0, 6V 5.0Ah	18-0850	5.41	5.16	5.00
LP6-7.0, 6V 7.0Ah	18-0851	5.55	5.29	5.12
LP6-10, 6V 10Ah	18-0852	7.92	7.55	7.31
LP6-12, 6V 12Ah	18-0853	7.92	7.55	7.31
LP6-12, 6V 12Ah	18-0853	9.07	8.65	8.38
LP12-1.2, 12V 1.2Ah	18-0854	4.72	4.49	4.36
LP12-2.3, 12V 2.3Ah	18-0855	6.12	5.84	5.65
LP12-2.9, 12V 2.9Ah	18-0856	7.67	7.30	7.08
LP12-3.2, 12V 3.2Ah	18-0857	7.41	7.06	6.84
LP12-4.0, 12V 4.0Ah	18-0858	6.94	6.61	6.41
LP12-5.0, 12V 5.0Ah	18-0859	9.65	9.19	8.91
LP12-5.4, 12V 5.4Ah	18-0860	8.34	7.95	7.70
LP12-7.0S, 12V 7.0Ah	18-0861	8.48	8.08	7.83
LP12-7.0, 12V 7.0Ah	18-0862	8.99	8.56	8.30
LP12-10H, 12V 10Ah	18-0863	15.50	14.77	14.31
LP12-12, 12V 12Ah	18-0864	17.24	16.43	15.92
LP12-18, 12V 18Ah	18-0865	26.02	24.80	24.03
LP12-20, 12V 20Ah	18-0866	28.51	27.17	26.33
LP12-24, 12V 24Ah	18-0867	35.52	33.84	32.79
LP12-38, 12V 38Ah	18-0868	60.92	58.05	56.25
LP12-200, 12V 200Ah	18-0869	284.65	271.21	262.82
LP12-250, 12V 250Ah	18-0870	342.94	326.75	316.64

53045



LPC Series Sealed Lead Acid Battery SLA General Application Batteries

A range of Leoch lead acid deep cycle 12V batteries, that are ideal for a wide variety of applications. These batteries are an ideal replacement, and have been designed to deliver power when you need it, providing exceptional performance, long service life and enhanced performance.

Typical applications: Electric tools, lawn mowers, golf trolleys and golf carts, portable apparatus, lights and instruments, electric toys, illumination light, fire alarms, portable power, wheelchairs, medical equipments.

For the battery terminal options, please click on this link

- Using oxygen recombination technology: maintenance-free
- Special grid alloy: less gassing, less self-discharging
- For longer cycle life: special paste formula, over dimensioned negative plate
- Optimised manufacturing process
- High quality AGM separator: extend cycle life and prevent micro short circuit
- ABS material: increase the strength of battery container

Technical specification

Model	Voltage	Capacity	Length	Width	Height	Weight	Terminal	Order code
LPC12-8	12V	8Ah	151mm	65mm	100mm	2.45kg	T2	18-0871
LPC12-13	12V	14Ah	151mm	98mm	101mm	4.3kg	T1/T2	18-0872
LPC12-20	12V	22Ah	181.5mm	77mm	167.5mm	6.9kg	T3	18-0873
LPC12-26	12V	26Ah	166.5mm	175mm	125mm	9.35kg	T3	18-0874
LPC12-26 GOLF	12V	28Ah	166.5mm	175mm	125mm	9.35kg	T3	18-0875
LPC12-26H (Tail Version)	12V	28Ah	165mm	125mm	182mm	9.5kg	T10	18-0876
LPC12-33 MOB ... (Mobility)	12V	33Ah	195mm	130mm	180mm	11.65kg	T6	18-0877
LPC12-33 GOLF Pro ...	12V	36Ah	195mm	130mm	180mm	11.2kg	T5 lug	18-0878
LPC12-33 GOLFPro +T-Bar	12V	36Ah	195mm	130mm	200mm	11.2kg	Powakaddy	18-0879
LPC12-38	12V	42Ah	197mm	165mm	170mm	14.20kg	T6	18-0880
LPC12-42	12V	47Ah	195mm	165mm	170mm	15.5kg	T6	18-0881
LPC12-55	12V	60Ah	228mm	137mm	230mm	17.7kg	T9	18-0882
LPC12-75	12V	85Ah	260mm	168mm	214mm	22.30kg	T6	18-0883
LPC12-80	12V	90Ah	353mm	175mm	190mm	25kg	SAE	18-0884
LPC12-90	12V	98Ah	305mm	168mm	213mm	27kg	T6	18-0885
LPC12-100	12V	110Ah	330mm	173mm	220mm	30.40kg	T11	18-0886

Type	Order code	1+	10+	25+
LPC12-8, 12V 9Ah	18-0871	13.16	12.54	12.15
LPC12-13, 12V 14Ah	18-0872	21.35	20.34	19.71
LPC12-20, 12V 22Ah	18-0873	33.80	32.21	31.21
LPC12-26, 12V 26Ah	18-0874	43.18	41.14	39.87
LPC12-26GOLF 12V 26Ah	18-0875	47.87	45.61	44.20
LPC12-26H, 12V 28Ah	18-0876	54.11	51.56	49.96
LPC12-33MOB, 12V 33Ah	18-0877	50.82	48.42	46.92
LPC12-33, 12V 36Ah	18-0878	58.99	56.21	54.47
LPC12-33GOLF 12V 36Ah	18-0879	62.75	59.79	57.94
LPC12-38, 12V 42Ah	18-0880	69.47	66.19	64.14
LPC12-42, 12V 47Ah	18-0881	76.03	72.44	70.20
LPC12-55, 12V 60Ah	18-0882	88.33	84.16	81.56
LPC12-75, 12V 85Ah	18-0883	107.71	102.62	99.45
LPC12-80, 12V 90Ah	18-0884	125.27	119.35	115.66
LPC12-90, 12V 98Ah	18-0885	131.76	125.54	121.65
LPC12-100, 12V 110Ah	18-0886	144.66	137.83	133.56

53045



Deep Discharge Gel Batteries

A range of sealed, and completely maintenance free, lead acid batteries. These batteries are high performance and valve regulated. Ideal for repeated cycling, heavy deep-discharge, high temperature and motive power applications.

- Utilises the latest battery technology
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Gelled thixotropic electrolyte
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- No equalization charge necessary
- Zero stratification
- Vibration and shock-resistant
- High deep-discharge capability
- Wide range of operating temperatures, resistant to freezing
- **FAA** and **IATA** approved as non-hazardous
- Connection is by tabs or bolts depending on size, please see below



Rapid is an official distributor of CamdenBoss products. The products listed here are those that Rapid hold in stock - but we have access to many more, including the company's complete range of terminal blocks. Click here to make an enquiry about ordering CamdenBoss terminal blocks, connectors and enclosures.

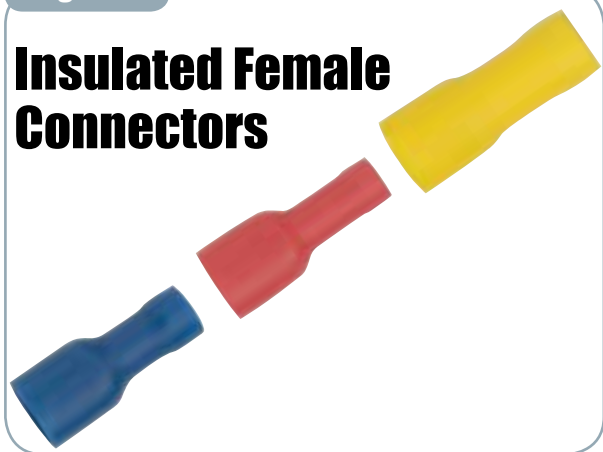
Technical specification

Voltage	Capacity	Charge (A)	Dimensions	Weight	Terminal	Mfrs part no	Order code
6V	7.5Ah	1.5A	150 x 34 x 96mm	1.3kg	4.8mm tab	BEG060075	18-1100
6	12Ah	2.4A	151 x 50 x 96mm	2.0kg	6mm tab	BEG060120	18-1102
12V	7.5Ah	1.5A	151 x 65 x 96mm	2.5kg	4.8mm tab	BEG120075	18-1104
12V	12Ah	2.4A	150 x 97 x 98mm	4.0kg	6.3mm tab	BEG120120	18-1106
12V	16Ah	4.5A	181 x 76 x 167mm	5.9kg	M5 bolt	BEG120180	18-1108
12V	26Ah	6.5A	166 x 176 x 126mm	8.8kg	M5 bolt	BEG120260	18-1103
12V	33Ah	8A	195 x 130 x 168mm	11kg	M6 bolt	BEG120330A	18-1105
12V	45Ah	11A	197 x 165 x 173mm	14.6kg	M6 bolt	BEG120450	18-1107
12V	52Ah	14A	228 x 167 x 207mm	17.5kg	M6 bolt	BEG120550	18-1109

Type	Order code	1+	10+	20+	40+
6V, 7.5Ah	18-1100	15.35	14.10	13.69	13.28
6V, 12Ah	18-1102	20.04	18.41	17.87	17.33
12V, 7.5Ah	18-1104	23.01	21.15	20.52	19.91
12V, 12Ah	18-1106	25.40			
12V, 26Ah	18-1103	68.40	62.85	61.01	59.15
12V, 32Ah	18-1105	56.57			
12V, 45Ah	18-1107	116.01	106.61	103.48	100.34
12V, 52Ah	18-1109	124.36	114.27	110.91	107.55

061882

Insulated Female Connectors



Technical data

Contact us directly on
01206 751166
or download from our website
www.rapidonline.com



Monobloc Gel Electrolyte Batteries



The HZY series from Haze is 12 year design VRLA sealed lead acid type batteries. The batteries use advanced Gel design instead of conventional AGM technology. These batteries are particularly suitable for cyclic and deep discharge applications, poor charging, frequent use, higher ambient temperature and many other extreme applications.

Typical applications include AGV (Automatic guided vehicle), Engine starting, Golf trolleys, Lawn mowers, Lights, Refrigeration, Road side cabinets, Robots, Electric tools, Measuring instruments and Pumps

- Full recovery from long discharges
- Good tolerance to highest temperature applications
- Suitable for where mains power supply is unstable
- No equalisation charge required
- Thicker plates for reduced grid corrosion and increased cycle life
- High resistance to shorting due to superior mechanical strength of the polymer separator
- One-way pressure-relief vent for safety and long life
- Ideal for wheelchair, medical, solar, refrigeration, boats, navigation, water pumps, floor machines, electric vehicles and more
- CE approved

Technical specification

Voltage	6 and 12V
Design life	12 years
Operating temperature	-25°C to +55°C
Plates	Flat pasted
Plate alloy	Lead tin/calcium alloy
Separator	Microporous duropastic
Terminal	Copper insert for SS bolts
Container/cover	ABS
Charge voltage	Float 2.27-2.30 VPC 20°C
Electrolyte	Sulphuric acid

Voltage	Capacity; 100hr discharge	Dimensions L x W x H	Weight	Mfrs. part	Order code
6V	7.5Ah	150 x 34 x 96mm	1.3kg	HZY6-7.5	18-1120
6V	12Ah	151 x 50 x 96mm	2kg	HZY6-12	18-1121
12V	7.5Ah	151 x 65 x 96mm	2.5kg	HZY12-7.5	18-1122
12V	12Ah	150 x 97 x 98mm	4kg	HZY12-12	18-1123
12V	18Ah	181 x 76 x 167mm	5.9kg	HZY12-18	18-1124
12V	26Ah	166 x 176 x 126mm	8.8kg	HZY12-26	18-1125
12V	33Ah	195 x 130 x 160mm	10.9kg	HZY12-33	18-1126
12V	44Ah	197 x 165 x 170mm	14kg	HZY12-44	18-1127
12V	55Ah	228 x 137 x 207mm	17.5kg	HZY12-55	18-1128
12V	80Ah	259 x 168 x 208mm	23.3kg	HZY12-80	18-1130

Type	Order code	1+	3+
6V, 7.5Ah	18-1120	17.02	15.21
6V, 12Ah	18-1121	19.49	17.07
12V, 7.5Ah	18-1122	29.48	25.94
12V, 12Ah	18-1123	27.29	24.50
12V, 18Ah	18-1124	41.49	36.69
12V, 26Ah	18-1125	61.92	59.39
12V, 33Ah	18-1126	70.15	66.40
12V, 44Ah	18-1127	86.00	83.48
12V, 55Ah	18-1128	120.89	116.37
12V, 80Ah	18-1130	149.87	139.92

073327

Chargers

VOLTCRAFT®

SK-B620C100 11 - 18VDC Multi Charger Discharger

The Voltcraft SK-B620C100 11 to 18V DC multi-charger/-discharger is a classic microprocessor-controlled high-performance quick charger with many different charging options to offer the best charging program for each application. It has a robust aluminium casing with an LCD and features automatic cell detection, built-in balancer for Li batteries, delta-peak charge termination, quick charge and trickle charge, automatic charging limit setting, charging temperature sensor connection, monitoring of input voltage and charging time limit. Once you have established the optimum charging routine for a particular battery the parameters can be saved to internal memory for easy recall (up to 5 batteries). Has a USB charging socket which supplies up to 1A DC. Supplied with charging cable with alligator clips, charging cable with open ends, balancer adapter plate, temperature sensor cable, USB cable, software and instructions.

- Up to 10A charging current
- Includes USB adapter with software
- Suitable for NiCd/NiMH/lead acid/LiPo/Li-ion and LiFe batteries
- Dimensions approx. 150 x 116 x 56mm
- Weighs approx. 615g

Type	Order code	1+
SK-B620C100 charger	55-2984	61.57

540600

VOLTCRAFT®

Hybrid Solar Charger SL-2

The Voltcraft SL-2 is a hybrid solar charger that powers small appliances such as mobile phones, MP3/MP4 players and GPS systems anywhere where there isn't mains power. Two AA batteries are charged using either the multi-crystalline solar cell or via USB, these charged batteries are then used to power any device connected to the charger. The SL-2 is ideal for outdoor use, use as a backup power supply or simply for energy saving.

- Solar charger
- USB-IN & USB-OUT Function (cable included)
- Includes 5 adapters, Sony Ericsson, Samsung, Nokia 2.5 mm version, mini-USB, USB
- Includes 2 Conrad Energy 2500 mAh rechargeable NiMH AA batteries

Type	Order code	1+
Hybrid solar charger	54-6456	20.20

537730

VOLTCRAFT®

202-BC LiPo Battery Pack Balancer Charger

The Voltcraft MN: 202-BC LiPo Battery Pack Balancer Charger has been designed to charge either a 2-cell 7.4V LiPo battery pack with a narrow plug or a 3-cell 11.1V LiPo battery pack with a broad plug.

Integrated LEDs inform you at a glance of the current charging status of your battery.

- Input voltage 100 to 240V AC
- Indoor use only
- Automatic cell detection
- Visual display of charging status
- Voltcraft type 202-BC



Rockets



Technical specification

Charger	10 to 15V DC
Input voltage	400mA
Output current	2-cell LiPo accumulator pack (7.4V DC),
Suitable for	3-cell LiPo accumulator pack (11.1V DC), Min. 400mAh
Dimensions (W x H x D)	51 x 16 x 76mm
Weight	45g
Power adaptor	100 to 240V AC, 50/60Hz
Input voltage	12V DC
Output voltage	1.5A
Output current	2.1mm (inner contact),
Plug size (ø)	5.5mm (outer contact)
Cable length	115cm
Overload protection	1.25A
Short circuit protection	3A
Dimensions	52 x 35 x 81mm
Weight	103g

Type	Order code	1+
LiPo pack charger	55-9063	18.95

548780

GP Batteries

ReCyko Value Charger Pack. Battery Charger Plus 8x AA and 4x AAA Batteries

Save money, safe charging and easy handling. The **GP PB420 Charger** offers an economical solution to charging your **NiMH batteries**. Whether you need to charge AAA or AA batteries, the GP PB420 charger is simple and convenient to use. Just put in your batteries and leave it charging overnight. The automatic timer control guarantees a safe charging process after which you can take your charged batteries out when needed.

Included in the pack are **12 NiMH batteries. 8x AA 2000mAh NiMH and 4x 800mAh NiMH** rechargeable batteries.

These GP ReCyko+ rechargeable batteries are ready to use straight from the packet. They will stay 90% charged for 6 months after charging. This effectively makes them as convenient to use as disposable batteries, but with the power and savings of a rechargeable.

The batteries are ideal for digital cameras, PDAs; CD and MP3, players, shavers, electric toothbrushes, toys and games.

- Overnight safe charging
- Battery charging status
- Two charging channels, can charge 2 or 4 pieces NiMH AA or AAA batteries
- Charge time from 6 hours
- Safety timer
- Brand: GP ReCyko+
- Type: Battery charger
- Manufacturers code: GPRHOPB42021
- Weight 450g
- Dimensions: 113(H) x 68(W)mm

Technical specification

Size:	AAA	AA
Brand:	ReCyko+	ReCyko+
Type:	NiMH (Rechargeable)	NiMH (Rechargeable)
Voltage:	1.2V	1.2V
Capacity:	800mAh	2000mAh
Dimensions:	10.5mm ø, 44.5(L)mm	15.5mm ø, x 50.5(L)

Type	Order code	1+
GP PB420 Charger pack	18-4001	12.71

537527

ANSMANN

Digispeed 4 Ultra 10 Minute Charger

This compact charger is ideal for 1 - 4 AAA or AA batteries. With 230V power supply for mains use, it will plug into both UK and Euro mains sockets. The cell temperature is permanently supervised with the advanced fan cooled technology, thus avoiding overheating of the rechargeable batteries.

- Charging time from 10 minutes
- Microprocessor control of charging status
- Temperature safety cut-off
- Individual charging process for each battery
- Faulty cell detection
- Automatic start of charging process as soon as cells are inserted
- Trickle charging
- Safety timer
- Protection against reverse polarity
- LED charging status indicators for each cell
- Supplied with **Digispeed charger and 4x 2700mAh NiMH batteries**

Type	Order code	1+
10 Minute charger	18-2528	42.53

079863



ANSMANN

Basic 5 NiCD/NiMH Charger

The Basic 5 is a constant-current-charger for nickel cadmium and nickel metal hydride batteries.

- Desktop charger
- Charges 1 - 4 cells
- Suitable for AAA, AA, C, D, and a PP3 (7.2 - 9.6V) batteries
- Charging indicator for cylindrical cells and 9V
- Protection against reverse polarity

Batteries not included.

Type	Order code	1+
Basic 5 charger	18-2522	9.14

079860



ANSMANN

8 Plus NiCD/NiMH Charger

The Energy 8 plus charger offers the most advanced charging control available today for all the most commonly used sizes of Nickel Metal Hydride and Nickel Cadmium batteries used in electronic appliances.

- Charger accepts 1-2x AAA or 1-6x AA or 1-4x C or 1-4x D and 1-2x 9V
- Ideal for 1-6 Micro AAA or Mignon AA cells
- Charges all these battery sizes automatically and fast
- Automatically reconditions batteries, before recharging
- Super fast charging, charges two 9V cells in a little over 2 hours
- Charges other sizes and/or types simultaneously
- Automatically adjusts to each cell size, cell type and cell capacity
- Each cell is charged independently, with simple progress indicator lights for each cell
- Automatically switches to trickle charge as each cells reaches full charge
- Faulty battery detection
- Can also be used as a cell checker to determine reserve life of each cell
- Switch mode for worldwide use
- 3-year warranty

Batteries not included.

Type	Order code	1+
Energy 8 charger	18-2526	48.38

079862



ANSMANN

16 Plus Microprocessor Controlled Charger

The Ansmann 16 Plus is an intelligent charger designed to be speedy but not to the detriment of your rechargeable batteries. On insertion into the Energy 16, your batteries are tested to see what type of suitable charge should be applied and charging commences automatically.

The charger is ideal for 1 to 12 AAA or AA cells or mixed, 1 to 6, C cells or D cells, as well as, 1 to 2, 9V batteries. The charger will automatically diagnosis the condition of the inserted cells with an automatic start of the refreshing process and/or pre-charging process, if required. The charger also has 2x USB charging sockets.

The Energy 16 plus has a microprocessor controlled charging function, multiple over charging protection, battery full detection, individual supervision of each cell position, faulty cell detection, alkaline battery detection and automatic switch to trickle charge. The charger is ideal for worldwide use, due to electronic switch mode power supply and interchangeable power supply.

- Suitable for NiMH/NiCd rechargeable batteries
- Charge USB devices
- Capacity quick test of the inserted cells for approx. 10 seconds
- LED green: capacity over 80% of the nominal capacity
- LED orange: capacity between 25-80% of the nominal capacity
- LED red: capacity under 25% of the nominal capacity
- Auto-diagnosis of the inserted cells with automatic start of a pre- charging and/or refreshing process
- Fast charging
- Microprocessor controlled charging
- Battery full detection (-dV)
- Automatic switch to trickle charge
- Multiple over charging protection
- Individual supervision of each cell position
- Faulty cell and alkaline battery detection
- Easiest handling due to fully automatic control
- Clear indicators and controls for each charging position
- Reverse polarity protection
- For worldwide use
- 3 year guarantee

Technical specification

Input voltage:	100-240V AC / 50-60Hz
Charging time	for Mignon AA 1000mAh: 1.2h
Charging currents:	Mono D: 6x 1000mA; Baby C: 6x 1000mA; Mignon AA: 12x 1000mA Micro AAA: 12x 400mA; 9V E-Block: 2x 60mA; USB: 2x 1000mA

Type	Order code	1+
Ansmann Energy 16	18-3945	79.50

525461





1001-0005-UK Powerline 4 Pro Battery Charger

The Ansmann PowerLine 4 Pro is a Microprocessor controlled battery charger and battery analyser with individual supervision and control of each inserted cell for 1 to 4 AAA or 1 to 4 AA cells. The LCD Display of the PowerLine 4 Pro shows the progress of each individual battery and lets you know when each battery is ready.



The charger can Charge, Discharge, Test and Refresh your batteries and find out just how well they are able to perform, allowing you to filter out the batteries that are past their best.

The Ansmann PowerLine 4 Pro is a desk top style unit, and comes with a world-wide power supply that incorporates both a UK and Euro plug. The added In Car charging capability makes it a great travel charger for both home and abroad.

- Charger for 1 to 4 AAA or 1 to 4 AA NiMH Rechargeable Batteries
- Individual charge control
- Clear LCD display
- Includes USB Charging socket (to charge mobile phones, iPod etc.)
- Charge, Discharge, Test and Refresh
- Capacity measured and shown in mAh
- World Wide Use (UK and Euro Plugs included)
- In-Car Lead included

Technical specification

Manufacturer:	Ansmann
Warranty:	3 Year
USB socket:	For charging a variety of devices
Functions:	Discharge and charging indicator
Microprocessor:	Controlled supervision of each cell
Type:	Desktop Charger
Model Number:	1001-0005-UK
Battery Type Charged:	AA, AAA

Type	Order code	1+
Powerline 4 Pro	18-3946	29.50

525511



Powerline 4 Mobile ZeroWatt inc 4x maxE AA2500mAh batteries

The Ansmann Powerline 4 ZeroWatt battery charger comes with 4x 2500mAh AA MaxE+ rechargeable batteries. ZeroWatt products automatically disconnect from the mains drawing no standby power. The batteries combine the convenience of an alkaline battery with the money saving and environmental benefits of a rechargeable battery. This intelligent travel charger provides money saving, environmentally friendly and safe charging no matter where in Europe you are.



- Charges 1 to 4 AA or AAA cells
- Wide Range 100 to 240V AC Input for worldwide use
- Supplied with 4 interchangeable input plugs (UK, EU)
- Supplied with 12V DC car adaptor for mobile use
- Individual monitoring of each cell being charged
- Microprocessor controlled supervision of each cell
- Multiple over-charge protection by voltage detection
- Safety timer
- Trickle charging for a minimum of 1 hour before the charger disconnects itself from the mains power
- Faulty cell and alkaline cell detection and reverse polarity protection
- Battery status is displayed by LED per charging slot
- Charging current: AA 800mA, AAA400mA
- Supplied with 4x AA 2500mAh maxE batteries
- 6 Hour safety timer

Type	Order code	1+
Powerline 4 Mobile Zero Watt	18-3953	30.86

400981



Powerline 5 LCD NiCD/NiMH Charger

In addition to processor-controlled individual bay monitoring and comprehensive safety features, the Powerline 5 also has an LC display to show you the charge status in 25% increments, along with the operating mode.



- LCD display
- Charges AAA, AA, C, D and 9V PP3
- Individual bay monitoring
- Termination by minus-delta V detection
- Discharge function for round cells
- Trickle charge
- Battery defect indicator
- Ideal for home or mobile use
- Supplied with 12V car adapter

Technical specification

Suitable for rechargeable battery size:	AAA, AA, C, D, 9V PP3
Charging bays:	6
Charging current (AAA):	500mA
Charging current (AA):	1000mA
Charging current (D):	1000mA
Charge current 9V battery pack:	15mA
Discharge current:	300mA
Charge current (C):	1000mA
Operating voltage:	230V 12V DC
Dimensions:	170(W) x 55(H) x 135(D)mm

Type	Order code	1+
Powerline 5 LCD	18-2525	33.36

082892

DURACELL®

Universal Battery Charger CEF22

This battery charger is ideal for multiple NiMH batteries. It will charge AA, AAA, C, D and 9V batteries at the same time.



The charger is capable of charging up to 4 batteries at once. The charge time is around 6 to 8 hours depending how much power is left in the batteries. An LED indicator shows charging status, red for charging, turning green when your batteries are ready to use.

Please note: Batteries not included.

Technical specification

Charges AA, AAA, C, D and 9V batteries in 5 to 12 hours					
Battery size	Battery power	Charging time	Battery size	Battery power	Charging time
AA	1300mAh	2.4hr	AAA	1000mAh	3.0hr
AA	2000mAh	3.6hr	C cell	2500mAh	4.5hr
AA	2500mAh	4.5hr	D cell	2500mAh	4.5hr
AA	2650mAh	5.0hr	9V	175mAh	12.5hr
AAA	850mAh	2.5hr			

Type	Order code	1+
Universal charger	18-4750	19.95

123482

DURACELL®

Value Battery Charger with 2 FREE Batteries (2x AA)

The Duracell value charger provides good charging capability at an affordable price. Typically charges in 6 hours (varies based on brand and capacity of battery). Charges AA and AAA rechargeable batteries. The charger is supplied with 2x AA batteries.



- Typically charges in 6 hours
- Lasts up to 3x longer in digital cameras (compared to ordinary alkaline)
- Duracell rechargeable batteries help keep your devices running longer
- LED indicator to indicate status of charging process
- Supplied with 2x AA
- Charges AA and AAA rechargeable batteries

Type	Order code	1+
Value charger	18-4751	9.99

123483



RC Battery Charger

The Ansmann Powerjack 6-8 battery charger is for 6-8 cell rechargeable radio control battery packs.

It comes supplied with a standard Tamiya connector. This is an economical and a very simple to use charger. It is designed to be plugged into a standard UK mains socket (fitted). There is a red LED to indicate charging.

Ansmann Racing is a reliable name and this is a reliable charger at a good price.



- For 6-8-cell rechargeable RC battery packs
- Charging time: 40 minutes to one hour per 100mAh
- Charge display: by red LED
- Input voltage: 230V 50 Hz +/-10%
- Output voltage: 7.2 - 9.6
- Nominal V DC Charging current: 180 - 140mA

Type	Order code	1+	3+	5+
Racing pack charger	18-3806	8.24	7.21	6.44

062310

MFA/COMO DRILLS

6V Lead Acid Plug-in Battery Charger

A reliable high quality charging unit that is suitable for sealed lead acid type batteries.

- In line fuse
- Input 230-240V AC, 50Hz
- Output 6V DC
- Output current 500mA nominal
- LED warning light
- Insulated nickel plated crocodile clips covered with PVC sleeving
- Compact plastic housing
- Weight 280g
- CE approved



Type	Order code	1+	5+	10+
6V Battery charger	18-0743	8.81	8.23	7.13

073663

RVFM

6V/12V Sealed Lead Acid Battery Chargers

A fully sealed battery designed specifically for 6V and 12V sealed lead acid batteries.

- Charges capacities in the range of 1 to 4Ah
- Two stage chargers bulk charge to 90%, then automatically switch to float charging
- Approximately 1.8m of flying lead with insulated, colour coded push-on spade connectors
- Ruggedly constructed and incorporate reverse polarity, short circuit and over voltage protection
- Two LEDs indicate the operational status of the chargers
- Dimensions excluding mains plug pins 93 x 56 x 64mm



Technical specification

Input voltage	12V	220/240V AC
Output voltage	6V	Bulk 14.4 to 15V DC Float 13.5 to 13.8V DC Bulk 7.2 to 7.5V DC Float 6.75 to 6.9V DC
Output current		300mA ±10%
Bulk float:		60mA ±10%
Transition current		12.6V DC ±5%
Transition voltage 12V		6.3V DC ±5%
Transition voltage 6V		Red LED Green LED
Indicators:		Both LEDs extinguished
Fault (i.e reverse polarity)		

Type	Order code	1+	3+	5+
6V 0.3A Charger	18-0720	18.71	17.62	16.50
12V 0.3A Charger	18-0725	20.92	19.82	17.62

062311

MFA/COMO DRILLS

12V Lead Acid Plug-in Battery Charger

A reliable high quality charging unit that is suitable for sealed lead acid type batteries.

- In line fuse
- Input 230-240V AC, 50Hz
- Output 12V DC
- Output current 720mA nominal
- LED warning light
- Insulated nickel plated crocodile clips covered with PVC sleeving
- Compact plastic housing
- Weight 280g
- CE approved



Type	Order code	1+	5+	10+
12V Battery charger	18-0744	11.04	9.91	9.16

073669

RVFM

6V/12V Sealed Lead Acid Battery Chargers (to 15Ah)

Designed specifically for 6V and 12V sealed lead acid batteries with capacities up to 15Ah.

- Two stage chargers
- Bulk charge to 90%, then automatically switches to float charging
- Built-in mains leads fitted with 13A plugs
- 1.8m of flying output lead with large colour coded charger type crocodile clips
- Ruggedly constructed and incorporate reverse polarity, short circuit and over voltage protection
- LEDs indicate the operational status of the chargers
- Dimensions: 130(L) x 92(W) x 70(D)mm



Technical specification

Order code	00-0000	00-0000	220/240V AC
Input voltage	220V to 240V AC	Input voltage	Bulk 14.4V to 15V DC Float 13.5V to 13.8V DC Bulk 7.2V to 7.5V DC Float 6.75V to 6.9V DC
Output current	1500mA ±10% 150mA ±10% 12.6V DC ±5% 6.3V DC ±5% Red LED Green LED	Output current	1500mA ±10% 150mA ±10% 12.6V DC ±5% 6.3V DC ±5% Red LED Green LED

Type	Order code	1+	3+	5+
6V 1.5A Charger	18-0740	33.07	30.86	28.65
12V 1.5A Charger	18-0745	33.07	30.86	28.65

062314

RVFM

12V 3A SLA Battery Charger

These battery chargers utilise the latest computer controlled technology to give greater charging control of lead acid batteries. Provides the fastest possible way to re-charge a SLA battery without overcharging.

- Increased battery reliability
- Short circuit protection
- Reverse polarity protection
- High temperature protection
- 3 stage charging
- Proportional charging
- Red and green LEDs provide charging status
- CE approved



Technical specification

Power input	230V 50Hz
Power output	13.7-14.5V DC @ 3A
Float charge	13.7V green LED
Bulk charge	14.5V red LED

Type	Order code	1+	3+	5+
12V SLA Charger	18-0741	38.59	37.49	33.07

072473



2 Step 12V Lead Acid Battery Charger/Optimiser



These high quality 2 step chargers are ideal for all types of lead acid batteries. They come in two flavours 1.0A; 3AH to 16AH (order code 18-1460) and 2.0A; 6AH to 32AH (order code 18-1461). At the end of the charge cycle the current decreases to a trickle charge at constant voltage, to keep the battery fully charged.

They are a very neat desktop style of charger, and are much more compact than most lead acid battery chargers and comes complete with 2 types of battery connecting leads. The first is a standard 'crocodile clip' and the second is a ring terminal connection, ideal for more permanent installations including caravans, boats and even vehicles that are stored for extended periods of time (classic cars, motorbikes etc). They have all the usual protection against reverse polarity, overload and short-circuit.

- 2 Stage control (bulk/float)
- Full charge with automatic shutdown
- Reverse polarity protected
- Short circuit output protected
- LED Charge indicators included
- Comes with fused UK mains lead
- Also supplied with ring terminal cable assembly
- Compliant to LVD safety standards
- Fitted with crocodile clips as standard
- RoHS and CE directive compliant

Technical specification

Model	778CB-121AS	778CB-122AS
Order code	18-1460	18-1461
Current	1.0A	2.0A
Dimensions	177(L) x 84.0(W) x 68.5(H)mm	177(L) x 84.0(W) x 68.5(H)mm
Weight	1.1Kg	1.4Kg
I/P Volts	220V to 240V AC	220V to 240V AC
Rec Battery Capacity	3AH to 16AH	6AH to 32AH

Type	Order code	1+	3+
1.0A Charger	18-1460	20.63	18.71
2.0A Charger	18-1461	23.12	22.02

081177

07966^a

18-0107
1 x N
L50, W13

062072073636

—————

E24902

071601

1x N 1x AA 2x AA 2x AAA

062273

TruPower

PP3 Battery Holder with Flying Leads

A 9V battery holder with 150mm flying leads.

- Ideal for many applications
- Male and female snap-in terminals assure positive contact and correct polarity
- Positive and negative legends clearly marked
- Withstands severe shock and vibration
- Moulded from black thermoplastic
- Incorporates screw fixing holes



Type	Order code	1+	25+	100+	500+
PP3 Battery holder	18-0163	0.293	0.223	0.172	0.153

078026

KEYSTONE

AAA Battery Holders



Hold batteries securely in place to provide a positive connection and maintain a low contact resistance.

- Available with PC terminals or wire leads
- Polypropylene holder material
- Nickel-plated spring steel
- Nickel-plated brass PC pins
- 26AWG tinned red and black 150mm wire leads

Type	Order code	1+	25+	50+	100+
1x AAA PC Mount	18-3680	0.773			
2x AAA PC Mount	18-3682	0.898	0.802	0.694	0.615
3x AAA PC Mount	18-3684	1.05	0.95	0.85	0.75
4x AAA PC mount	18-3686	1.15	0.982	0.872	0.818
2x AAA Wire leads	18-3690	0.898	0.785	0.663	0.653
3x AAA Wire leads	18-3692	1.09	0.993	0.895	0.795
4x AAA Wire leads	18-3694	0.979	0.949	0.918	

071693

KEYSTONE

PP3 PCB Battery Holder

A 9V battery holder suitable for PCB mounting.

- Ideal for power source or memory back-up applications
- Excellent spring retention for holding battery in place
- Male and female snap-in terminals assure positive contact and correct polarity
- Withstands severe shock and vibration
- Moulded from high impact glass filled nylon
- **Supplier part No. 1294**



Technical specification

Terminals	Brass, tin plated
Contacts	Steel, nickel plate
Operating temperature	-40°C to +130°C

Type	Order code	1+	25+	100+
9V PCB Battery holder	18-2997	1.39	1.32	1.20

072477

Page 1017

48W Temperature Controlled Soldering Station



TruPower

PCB Mounting Battery Holders



A range of battery holders suitable for PCB mounting.

- All types are moulded in black thermoplastic
- All incorporate PCB pin terminations and marking for battery orientation
- Larger sizes incorporate screw fixing holes

Type	Dimensions	Order code	1+	25+	100+	500+
1x N	13 x 12.5 x 35	18-2915	0.184	0.156	0.137	0.121
1x AAA	13 x 12 x 50	18-2920	0.235	0.177	0.126	0.111
2x AAA	25 x 12 x 53	18-2925	0.187	0.16	0.14	0.123
4x AAA	50 x 12 x 53	18-2930	0.396	0.313	0.274	0.244
1x AA	16 x 13 x 57	18-2960	0.184	0.156	0.137	0.121
2x AA	32 x 16 x 58	18-2965	0.209	0.179	0.156	0.139
3x AA	48.5 x 17 x 58	18-2967	0.363	0.311	0.272	0.243
4x AA	62 x 16 x 58	18-2970	0.523	0.398	0.311	0.275
1x PP3	31 x 20 x 55	18-2990	0.248	0.192	0.168	0.149
3x AAA	40 x 12 x 53	18-2926	0.37	0.295	0.276	0.246

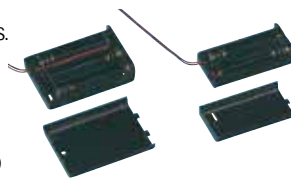
062276

TruPower

Battery Boxes with Covers

Enclosed AAA and AA size battery boxes with detachable lids, moulded in black ABS.

- Lids may be secured with the small screws provided
- Terminated in red and black stranded 26AWG wires approx. 150mm long
- Also available with fitted miniature On/Off switch wired into the black (negative) wire



Type	Order code	1+	25+	100+	500+
2x AAA With Switch	18-2900	0.482	0.358	0.309	0.259
3x AAA With Switch	18-2901	0.728	0.558	0.428	0.38
4x AAA With Switch	18-2902	0.767	0.607	0.51	0.417
2x AAA	18-2903	0.426	0.327	0.252	0.222
3x AAA	18-2904	0.582	0.42	0.355	0.294
4x AAA	18-2905	0.519	0.42	0.371	0.294
2x AA With Switch	18-2906	0.519	0.396	0.334	0.285
3x AA With Switch	18-2908	0.914	0.70	0.539	0.477
4x AA With Switch	18-2909	0.729	0.557	0.508	0.42
2x AA	18-2910	0.458	0.358	0.324	0.261
3x AA	18-2912	0.767	0.607	0.51	0.417
4x AA	18-2913	0.755	0.607	0.469	0.408

062278

New products
www.rapidonline.com

RVFM

D Cell Battery Holder

A battery holder to take up to four D size batteries.

- Batteries are linked in series
- 4mm sockets are connected to each 1.5V division allowing the user to select 1.5V, 3.0V, 4.5V or 6V
- The individual D cell holders are securely mounted to a rigid Perspex back plate
- Ideally suited to electricity/basic electronics teaching



Type	Order code	1+	10+	25+
Holder with 4mm sockets	18-3722	12.64	10.49	9.82

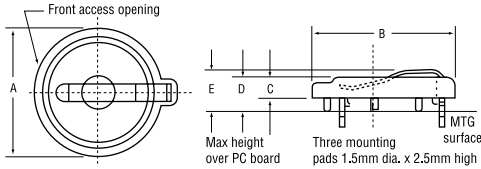
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TruPower

Coin Cell Holders

A range of PCB mounting coin cell holders for use on equipment where battery replacement may be necessary.

- Untagged coin cell holder held in position by the positive contact
- Ensures a good connection with the negative terminal in the base of the holder
- A raised rim holds the cell in place which is removed at the front of the holder to assist insertion
- Available to suit 2x 12mm (CR1225 style), 20mm (CR2032 style), 23mm (CR2325 style) or 24mm (CR2430 style) diameter coin cells



Technical specification

	1225 type	2032 type	2430 type
A	13mm	22.6mm	27.7mm
B	15mm	27.3mm	30.4mm
C	4.0mm	5.1mm	4.7mm
D	5.5mm	7.6mm	7.2mm
E	8.2mm	8.4mm	8.3mm
Max. cell diameter	12mm	20mm	24mm
Housing	Black PBT		
Contacts	Tin plated phosphor bronze		

Type	Order code	1+	25+	100+	500+
1225 Style (2 cells)	18-0496	0.475	0.36	0.289	0.254
2032 Style	18-0498	0.509	0.408	0.319	0.265
2430 Style	18-0499	0.332	0.254	0.20	0.166

062281

KEYSTONE

Coin Cell Holders

A range of high quality PCB mounting cell holders.

- Suitable for applications where batteries need to be changed when exhausted and desoldering is undesirable
- Cells are held in position by the positive contact and connect with a negative contact in the base of the holder
- Available to suit 12, 16, 20, 23 and 24mm diameter cells
- 12, 20 and 24mm versions are available in dual format, holding two cells for applications requiring 6V backup power



Technical specification

Cell dia. (mm)	No. of cells	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Keystone	Order
12	1	15.1	19.1	3.8	6.4	7.1	500	18-3610
12	2	15.1	19.1	6.4	8.9	9.7	501	18-3615
16	1	19.1	22.8	3.8	6.4	7.9	502	18-3620
20	1	20.21	13.03	4.9	8.5	7.5	106	18-3627
20	2	27.8	31	7.9	10.5	11.5	1026	18-3625
23	1	25.4	29.2	5	7.5	8.5	104	18-3630
24	1	25	13.03	4.9	8.5	7.5	105	18-3632
24	2	25	18	7.9	11.9	10.46	1025	18-3636

Type	Order code	1+	25+	50+	100+
12mm Single	18-3610	1.20	1.12	0.999	0.84
12mm Dual	18-3615	1.37	1.25	1.15	0.946
16mm Single	18-3620	1.21	1.11	1.03	0.938
20mm Single	18-3627	1.33	1.21	1.04	0.917
20mm Dual	18-3625	1.33	1.21	1.06	1.00
23mm Single	18-3630	1.48	1.23	1.12	1.01
24mm Single	18-3632	1.32	1.20	1.05	0.906
24mm Dual	18-3626	1.08	1.02	0.948	0.862

071110

No minimum order value
UK mainland only

KEYSTONE

Low Profile Coin Cell Holder – SMT

Low profile PCB mounting holders for CR2032 coin cells.

- Supplied in surface-mount version
- Holders have polarised dual-spring contacts to ensure correct polarity and low contact resistance
- Height above PCB 5.5mm
- Keystone type 1060 (surface-mount) available



Type	Order code	1+	25+	100+
Surface mount	18-3642	1.25	1.19	1.05

061860

Contacts & Clips

TruPower

Battery Clips PP3

These battery clips will suit PP3 and PP6 type 9V batteries.

- Lead lengths 150 or 200mm



Type	Order code	10+	100+	1000+
PP3, PP6 batt. clips 150mm	18-0105	0.133	0.099	0.085
200mm	18-0106	0.184	0.138	0.115

062383

BESTSELLER

TruPower

Heavy Duty PP3 Battery Clips with Stripped and Tinned Ends

A heavy duty battery clip with wires entering the cover at one end.

- The hard moulded ABS cover makes the clip more robust
- Fitted with colour coded 150, 200 or 300mm leads with stripped and tinned ends



Type	Order code	10+	100+	500+	1000+
End entry 150mm	18-0092	0.186	0.116	0.10	0.081
End entry 200mm	18-0093	0.173	0.103	0.091	0.077
End entry 300mm	18-0097	0.272	0.206	0.158	0.141

062284

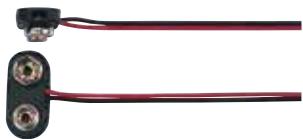
BESTSELLER

TruPower

Heavy Duty PP3 Battery Clips

A heavy duty battery clip with wires entering the cover at the side.

- The hard moulded ABS cover makes the clip more robust
- Fitted with colour coded 150, 200 or 300mm leads with stripped and tinned ends



Type	Order code	10+	100+	500+	1000+
Side entry 150mm	18-0094	0.176	0.133	0.099	0.086
Side entry 200mm	18-0095	0.183	0.138	0.104	0.091
Side entry 300mm	18-0091	0.271	0.204	0.153	0.132

062285

KEYSTONE

PP3 Battery Clip Side Entry

A rigid plastic battery clip for 9V (PP3 type) batteries with strain relief.

- Completely covers the exposed metal studs on the top of the battery once fitted
- Wires enter from the side
- Fully insulated
- Vinyl covering
- Available with colour coded 100, 150 or 200mm flying leads
- Wire ends stripped and tinned for easy connection
- UL and CSA approved



Technical specification

Type 9V PP3
Contacts Brass, nickel plate
Wire 26AWG stripped and tinned

Type	Order code	1+	100+	500+
Clip 150mm Lead	18-0088	0.344	0.292	
Clip 200mm Lead	18-0089	0.347	0.337	0.321

072029



PP3 9V Battery Straps

A series of battery straps with 'I' configurations.

- Fully insulated and feature brass nickel plated snap-on connectors
- Supplied with a vinyl base construction
- Available in 100, 150 and 200mm lead lengths for economy
- Red and black tinned lead wires



Type	Order code	1+	100+	500+	100+
Strap 100mm lead wire	18-0080	0.316	0.265	0.245	
Strap 150mm lead wire	18-0082	0.479	0.398	0.377	0.286
Strap 200mm lead wire	18-0084	0.347	0.326	0.306	

071699



PP1/PP9 Battery Clips

Twin 'mouse type' battery clips

- Suitable for PP1 and PP9 type batteries
- Available with 100mm or 300mm flying leads
- Not for use with PP3 style 9V batteries



Type	Order code	1+	100+	500+
PP9 Clip 100mm	18-0100	0.231	0.185	0.158
PP9 Clip 300mm	18-0169	0.388		

062286



Spring Holder Clip for PP3 Batteries

A spring metal clip for physically holding PP3 batteries.

- Single M3 fixing hole
- Dimensions: 24(W) x 26(H) x 17mm(D)



Type	Order code	1+	25+	100+	500+
Spring clip for PP3	18-3480	0.186	0.128	0.116	0.103

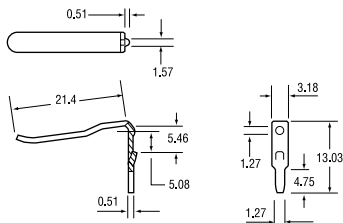
062291



Coin Cell Contact

A nickel plated 0.5mm spring steel positive clip for retaining and connecting to coin cells.

- Designed for PCB mounting in self-contained, custom moulded non-metallic battery compartments
- Contact stamped with '+' symbol
- Keystone Cat. No. 105-2



Type	Order code	1+	10+	100+	1000+
Coin cell +ve contact	18-3555	0.143	0.125	0.12	0.115

062295



Lithium Coin Cell Retainer Contacts



A range of economical and reliable retainer contacts.

- Designed for quick and easy battery installation and replacement
- Perfect for memory backup applications where the ultra low profile allows high density packing of PCBs
- Available in both surface and through hole mount to accommodate cell diameters from 12 to 24mm
- Negative battery connection is achieved by the battery contacting the PCB track directly

Cell dia.(mm)	Mounting	Keystone Cat.no	Cell types	Order code
12	SMT	3000	CR1216, CR1220, CR1255	18-3570
16	SMT	3012	BR1616, CR1612, CR1616, CR1616, CR1620, CR1632	18-3576
16	THM	3013	BR1616, CR1612, CR1616, CR1616, CR1620, CR1632	18-3579
20	SMT	3002	CR2016, CR2020, CR2025, CR2032	18-3580
20	THM	3003	CR2016, CR2020, CR2025, CR2032	18-3585
24	SMT	3006	CR2430, DL2430	18-3600
24	THM	3007	CR2430, DL2430	18-3605

Type	Order code	1+	25+	50+	100+
12mm SMT	18-3570	0.441	0.42	0.336	0.263
16mm SMT	18-3576	0.453	0.408	0.363	0.299
16mm THM	18-3579	0.489	0.374	0.344	0.322
20mm SMT	18-3580	0.486	0.436	0.368	0.289
20mm THM	18-3585	0.326			
24mm SMT	18-3600	0.377			
24mm THM	18-3605	0.541	0.486	0.43	0.299

062296



20mm Coin Cell Retainer Contacts

Economical and reliable cell battery retainer clips.

- Designed for quick and easy battery installation and replacement
- Perfect for memory back-up applications
- Both surface and through hole mounts available
- Low profile for densely packed PCBs
- Retains cell securely, withstands shock and vibrations
- Reliable dual spring contacts assure low contact resistance
- Polarity clearly marked (+)
- Stable mount legs for increased strength



Technical specification	
Battery sizes accepted	20mm
Battery type accepted	CR2016, CR2020, CR2025, CR2032
Body material	Phosphorus Bronze,
Body plating	Nickel plate
Mounting type	Both surface Mount and through hole
Dimensions:	
Surface mount (STM order code 18-3780)	22(W) x 20(D) x 6.3mm(H)
Through hole inc. lugs (THM order code 18-3785)	31(W) x 20(D) x 4mm(H)

Type	Order code	1+	25+	100+	500+
Surface mount	18-3780	0.242	0.175	0.141	0.113
Through hole mount	18-3785	0.202	0.146	0.117	0.094

071265



PCB Button Cell Holders

These inexpensive battery holders will ensure button cells are held securely to the PCB.

- Retains 736 button cell (7.9 x 2.6mm)
- Low profile for density packed PCBs
- Stable mount legs for increased strength
- Retains button cell securely
- Supplied in **packs of 30**



Type	Order code	1+
Button cell holders	18-0077	7.23

074864



NEW FOR 2015

UP BOX COMPACT 3D DESKTOP PRINTER

- Higher resolution
- Bigger build area
- Faster printing

The UP BOX is the third, ground breaking model in the award winning UP series of desktop 3D printers. Incorporating all of the proven features of the UP Mini and UP Plus 2, the UP BOX is easy to set up, use and boasts an impressive build size of 255 x 205 x 205 and 0.1mm layer thickness.

Fully automatic platform calibration

Automatic platform levelling and nozzle height detection with integrated probe provides a seamless 3D printing experience

Large build volume

Impressive build volume of W255 x D205 x H205mm for extra large print jobs

Faster printing with higher precision

Set to the same print quality, the UP BOX prints 30% faster than the UP Plus 2 with a resolution of up to 0.1mm layer thickness

Enclosed print bed with new ABS print surface

The enclosed build chamber maximises temperature stability and this combined with an ABS print surface to improve adhesion and eliminate warping on large prints

Smart Support Technology

The UP BOX automatically produces easily removable support structures and allows difficult and complex designs to be printed with ease

Powerful but easy to use software

The UP software is simple to use and feature rich – easy enough for first time users and versatile enough for experts

Quiet operation and air filtration

The UP BOX produces very little noise and has a built-in air filter to absorb fumes and minimize odour



Mechanical details

Machine Size	(w)485 x (d)495 x (h)520mm
Machine weight	20kg
Build volume	(w)255 x (d)205 x (h)205mm
Print material	ABS/PLA
Print head	Single
Layer thickness	0.10/0.15/0.20/0.25/0.30/0.35/ 0.40mm
Power	110-240v, 50/60Hz
Connectivity	USB
Workstation O/S	Windows XP, Vista, 7 & 8, MAC

Only

£1499.99

Order code 25-0200

500g filament reels

500g filament reels are compatible with the UP BOX, UP Plus 2 and UP Mini *

Type	Order code
Black ABS 500g	25-0210
White ABS 500g	25-0211
Blue ABS 500g	25-0212
Green ABS 500g	25-0213
Yellow ABS 500g	25-0214
Red ABS 500g	25-0215
Hawaii Blue PLA 500g	25-0216
Rio Green PLA 500g	25-0217
Pompeii Grey PLA 500g	25-0218

See www.rapidonline.com
for up-to-date prices

* old style 700g spools are not compatible with the UP BOX but remain compatible with the Plus 2 and Mini

