



ENERGY SOLUTIONS

Catalogue



- UPS
- Solar
- Wind
- Generators



ACDC

 **DYNAMICS**

ELECTRICAL & ELECTRONICS
DISTRIBUTORS & MANUFACTURERS

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LINE INTERACTIVE UPS

NEW



Line-Interactive Modified Sine Wave UPS - Compact. c/w battery

Code	Watts	VA	Size (mm)	Standby Time	No. of batteries
D-650	390W	650VA	145 x 320 x 65	5-10min	1
D-800	480W	800VA	145 x 320 x 65	5-10min	1
D-1000	600W	600VA	165 x 370 x 140	5-10min	2
D-1200	720W	1200VA	165 x 370 x 140	5-10min	2
D-1500	900W	1500VA	165 x 370 x 140	5-10min	2
UPS-1700D	1200W	1700VA	165 x 370 x 140	5-10min	3
UPS-2200D	1320W	2200VA	165 x 370 x 140	5-10min	3

- Software CD (included)
- AVR Function. Auto voltage regulator
- Over charge/discharge protection.
- Overload and circuit protection.
- LCD Display.
- Full load backup time 4mins.
- Half load backup time 16mins.
- Wide input voltage range: 140-275VAC
- Output voltage: 230VAC $\pm$ 10%.
- Spare batteries 12V/7AH SY1270

NEW



KI Series

Line-Interactive Pure Sine Wave UPS - Units have built-in battery

Code	Watts	kVA	Size (mm)	Standby Time Full Load	Standby Time Half Load	DC Voltage
KI1000	700 W	1KVA	156 x 450 x 220	6min	10min	24
KI2000	1400 W	2KVA	198 x 525 x 347	6min	10min	48
KI3000	2000 W	3 KVA	198 x 525 x 347	6min	10min	72

- Wide Input Voltage: 150-300 VAC
- Output voltage: 220/240 $\pm$ 2%

Application

- Data Centre
- Commercial Facility
- Point of Sale
- Computer Room
- Hub and Network device
- Router

For Extended Operating Time please see UPS External Battery Cabinets on page 81.

- Digital Technology
- Intelligent battery Charger
- User - Friendly LCD Display
- Reliable online interactive design
- Fully Functional Protection
- Intelligent RS232 Communication Port
- Low Battery, Overload, short-circuit and over temperature
- Wide Input Voltage: 150-300 VAC
- Output voltage: 220/240 $\pm$ 2 %

SERVER COMPACT UPS

NEW



KRJ Series

Online Compact Server UPS 1 phase Without transformer. Units have built-in battery

Code	Watts	kVA	Size (mm)	Standby Time Full Load	Standby Time Half Load	DC Voltage
KR1000-J	700W	1KVA	440 x 500 x 2U	6min	15min	36
KR2000-J	1400W	2KVA	440 x 500 x 2U	5min	15min	72
KR3000-J	2100W	3 KVA	440 x 500 x 2U	5min	15min	96
KR6000-J	4200W	6 KVA	440 x 600 x 3U	5min	15min	192

Application

- Rack Device
- Data Centre
- Point of Sale
- Precision Instrument
- Computer Room
- Hub and Network device
- Router
- Commercial Facility Point

For Extended Operating Time please see UPS External Battery Cabinets on Page 81

- Output isolation transformer
- Wide input voltage range
- Full protection function
- High reliability and performance
- Intelligent RS232 Communication Port
- UPS management software (optional)
- External battery bank (optional)
- SNMP adapter or USB (optional)
- Wide Input Voltage: 165-275VAC
- Output voltage: 220/240 $\pm$ 2 %

ONLINE UPS

NEW



KR Series

Pure Sine Wave UPS Single phase 230V/230VAC. Without transformer. Units have built-in battery.

Code	Watts	kVA	Size (mm)	Standby Time Full Load	Standby Time Half Load	DC Voltage
KR1000 LCD	700W	1 KVA	156 x 400 x 220	6 min	15min	48
KR2000 LCD	1400W	2 KVA	198 x 490 x 347	5 min	15min	48
KR3000 LCD	2100W	3 KVA	198 x 490 x 347	5 min	15min	96
KR6000 LCD	4200W	6 KVA	255 x 640 x 700	5 min	15min	192
KR1110S	7000W	10 KVA	255 x 640 x 700	5 min	15min	192

Application

- IT Device
- Telecommunication
- Industry
- Data Centre
- Commercial Facility

For Extended Operating Time please see UPS External Battery Cabinets on Page 81

- Output isolation transformer
- Wide input voltage range
- Full protection function
- High reliability and performance
- Intelligent RS232 Communication Port
- UPS management software (optional)
- External battery bank (optional)
- SNMP adapter or USB (optional)
- Wide Input Voltage: 165-275VAC
- Output voltage: 220/240 $\pm$ 2 %

NEW



KR31 Series

Pure Sine Wave UPS Three Phase (IN) to Single Phase (OUT) Without transformer. Unit only uses external standby battery connection in Battery Cabinet. 400VAC 3 Phase +N/ 230VAC Single Phase

Code	Watts	kVA	Size (mm)	Standby Time	DC Voltage
KR3110	7000W	10 KVA	255 x 640 x 700	See table for UPS BCP	192
KR3115	10.5KW	15 KVA	255 x 740 x 785	See table for UPS BCP	192
KR3120	16KW	20 KVA	255 x 740 x 785	See table for UPS BCP	348

Application

- IT Device
- Telecommunication
- Industry
- Data Centre
- Commercial Facility

For Extended Operating Time please see UPS External Battery Cabinets on Page 81.

- IGBT inverter and output isolation transformer
- High reliability DSP control
- Wide input voltage range
- DC cold start function
- Full protection function
- Intelligent RS232 /RS485 Communication Port
- Intelligent battery monitor system - MMBM (optional). See page 77.
- Wide Input Voltage : 380 $\pm$ 25 % VAC
- Output voltage : 220 $\pm$ 1 %

ONLINE UPS

NEW



Pure Sine Wave UPS - Three Phase (IN) to Three Phase (OUT) Without transformer.
Unit only uses external standby battery connection in battery cabinet.
Battery & Battery Box to be ordered separately.

Code	Watts	kVA	Size (mm)	Standby Time	DC Voltage
KR-3310	8 KW	10KVA	400 x 800 x 1180	See table for UPS BCP	348
KR-3320	16 KW	20KVA	400 x 800 x 1180	See table for UPS BCP	348
KR-3330	24 KW	30KVA	400 x 800 x 1180	See table for UPS BCP	348
KR-3340	32 KW	40KVA	500 x 800 x 1600	See table for UPS BCP	348
KR-3350	40 KW	50KVA	500 x 800 x 1600	See table for UPS BCP	348
KR-3360	48 KW	60KVA	500 x 800 x 1600	See table for UPS BCP	348

- IGBT inverter and output isolation transformer
- 3 phases UPS allow 100% unbalance load
- Full DSP control, high reliability and performance
- Wide input voltage range
- DC cold start function
- Advanced battery charging management
- Intelligent fan speed control

Pure Sine Wave UPS - Three Phase (IN) to Three Phase (OUT) With Isolation Transformer

FR-UK33080	64 KW	80KVA	1200 x 800 x 1600	See table for UPS BCP	348
FR-UK33100	80 KW	100KVA	1200 x 800 x 1600	See table for UPS BCP	348
FR-UK33120	96 KW	120KVA	1200 x 800 x 1600	See table for UPS BCP	348
FR-UK33160	128 KW	160KVA	1200 x 800 x 1600	See table for UPS BCP	348
FR-UK33200	160 KW	200KVA	1800 x 800 x 2000	See table for UPS BCP	348

- ECO mode is available
- Intelligent RS232/RS485 Communication Port
- Advanced no-master-slave parallel technology (included)
- Intelligent battery monitor system - **MMBM-2** (optional)
- Wide Input Voltage: 380/400 +/-20% VAC
- Output voltage: L-N 220/230 +/-1%, L - L 380/400 +/-1%

Application

- Computer Room
 - Data Centre
 - Precision Instrument
 - Intelligent Equipment
- Extended Operating Time please see UPS BCP
For standby times, please see below

EXTERNAL BATTERY CABINET

NEW



C-Type Battery Cabinet, No Wheels

Model	Layer	Product Size	Battery Capacity and quantity (Panasonic Size)	
C-1B	1	280 x 190 x 220	24AH/17AH	2/3 PCS
C-2	1	470 x 390 x 310	17/24/38/65/100AH	10/6/4/2/2 PC'S
C-6	2	420 x 450 x 600	17/24/38/65/100AH	20/16/12/6/6 PC'S
C-12	3	780 x 455 x 900	17/24/38/65/100AH	30/24/12/10 PC'S
C-20	4	950 x 455 x 1190	24/38/65/100AH	56/40/20/20 PC'S
C-24	4	1150 x 455 x 1190	65AH/100AH	24 PC'S
C-32	4	780 x 880 x 1190	65AH/100AH	32 PC'S

A-Type Battery Cabinet, c/w wheels

Model	Layer	Product Size	Battery Capacity and quantity (Panasonic Size)	
BAT-A4	2	420 x 450 x 670	17/24/38/65/100AH	20/12/8/4/4 PC'S
BAT-A8	2	760 x 450 x 770	17/24/38/65/100AH	36/20/16/8/8 PC'S
BAT-A16	4	780 x 455 x 1360	24/38/65/100AH	32/32/16/16 PC'S
BAT-A20	4	950 x 455 x 1360	24/38/65/100AH	40/40/20/20 PC'S

EXTERNAL BATTERIES FOR EXTENDED BACK-UP TIME

	30 mins standby	1 hr standby	2 hr standby	4 hrs standby	8 hrs standby	UPS KVA	Series size KR-L-J	Series size KR-L	Series size KR 31-L	Series size KR 33-L
Number of Batteries	24Ahx3	38Ahx3	65Ahx3	100Ahx3	100Ahx6	1 KVA	KR1000 L-J	KR1000L-LCD	-	-
	24Ahx6	38Ahx6	65Ahx6	100Ahx6	65Ahx12	2 KVA	KR2000 L-J	KR2000L-LCD	-	-
	24Ahx8	38Ahx8	65Ahx8	100Ahx8	100Ahx16	3 KVA	KR3000 L-J	KR3000L-LCD	-	-
	24Ahx20	38Ahx20	65Ahx20	100Ahx20	100Ahx40	6 KVA	KR6000 L-J	KR6000L-LCD	-	-
	24Ahx20	65Ahx20	100Ahx20	100Ahx40	100Ahx60	10 KVA	-	KR-1110	KR3110	KR - 3310
	38Ahx20	100Ahx20	65Ahx40	100Ahx60	100Ahx80	15 KVA	-	-	KR3115	-
	65Ahx20	100Ahx20	65Ahx60	100Ahx60	100Ahx100	20 KVA	-	-	KR3120	KR - 3320
	65Ahx29	65Ahx58	100Ahx58	100Ahx87	-	30 KVA	-	-	-	KR - 3330
	100Ahx29	100Ahx58	100Ahx87	100Ahx116	-	40 KVA	-	-	-	KR - 3340
	100Ahx29	100Ahx58	100Ahx87	100Ahx116	-	50 KVA	-	-	-	KR - 3350
	65Ahx58	100Ahx87	100Ahx116	-	-	60 KVA	-	-	-	KR - 3360
	100Ahx58	100Ahx87	100Ahx116	-	-	80 KVA	-	-	-	FR-UK33080
	100Ahx87	100Ahx116	100Ahx145	-	-	100 KVA	-	-	-	FR-UK33100
	100Ahx87	100Ahx145	-	-	-	120 KVA	-	-	-	FR-UK33120
	100Ahx116	500Ahx174	-	-	-	160 KVA	-	-	-	FR-UK33160
	500Ahx174	-	-	-	-	200 KVA	-	-	-	FR-UK33200

For batteries see page 68.

Larger sizes available on request

MOBILE POWER BACKUP SYSTEMS

NEW



EPS-2000D



PP Range

Mobile UPS - Modified sine wave output 230VAC single phase

To be used for home or office during power cutouts. All in one inverter/ charger/ auto changeover/ battery pack & trolley.

Code	Watts	Surge Watts	Back-up time at full load with internal battery	Back-up time with additional 110Ah battery	Back-up time with additional 4pc (110Ah) battery	Back-up time with additional 8pc (110Ah) battery box	Back-up time with additional 16pc (110Ah) battery box
EPS-1000B	1000W	2000W	1.2hrs	2.4hrs	6hrs	10.8hrs	22.8hrs
EPS-1500B	1500W	3000W	0.8hrs	1.6hrs	4hrs	7.2hrs	15.2hrs
EPS-2000B	2000W	4000W	0.6hrs	1.2hrs	3hrs	5.4hrs	11.4hrs
EPS-2000D	2000W	4000W	0.6hrs	1.2hrs	3hrs	5.4hrs	11.4hrs
PP-1500	1500W	3000W	1.6hrs	2.4hrs	4.8hrs	11.2hrs	24hrs
PP-2000	2000W	4000W	1.2hrs	1.8hrs	3.6hrs	8.4hrs	18hrs
PP-3000	3000W	6000W	0.8hrs	1.2hrs	2.4hrs	5.6hrs	12hrs

Accessories

Battery Boxes	—	—	BAT-A4	BAT-A8	BAT-A16
Box Size (mm)	—	—	420 x 450 x 670	760 x 450 x 770	780 x 455 x 1360
Battery Code	—	SY120110	SY120110	SY120110	SY120110

Modified sine wave output 210-230VAC
Input voltage 12VDC
Overload protection

Auto changeover from mains to battery power
Over/ Under battery voltage warning/ shut-down

DC TO AC INVERTERS



Description

- Low Voltage LED
- Overload LED
- Output Voltage 230VAC $\pm 8\%$
- DC to AC Isolated
- Output short circuit protected by fuse
- PM-A-300-SA c/w bulkhead (excl. lamp)

Recommended Applications

- Radio's, TV's, cellphone chargers, energy saving lamps, incandescent lamps, power tools.
- Calculation for power tool:
Power Tools Wattage x3, e.g.
100W x 3 = 300W use 300W inverter.
- Not recommended for flourescent fittings using iron core ballasts.

Code	PM-A-150-SA	PM-A-300-SA	PM-A-600-SA	PM-A-1000-SA
Output Power:	150W	300W	600W	1000W
Peak Power:	250W	500W	1000W	1500W
Input Volts:	10-14VDC	10-14VDC	10-14VDC	10-14VDC
Size (L x H x D):	150 x 190 x 170	420 x 215 x 140	420 x 215 x 140	340 x 335 x 250

MODIFIED SINE WAVE INVERTERS



NEW DESIGN



Inverter



Inverter

Remote Control Kit, 15m



For AH series
Code PM-R15A

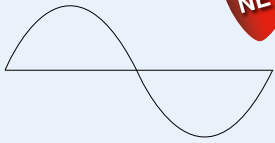
Max. Continuous Power	150W	300W	600W	1000W	1200W	1500W	2500W
Peak Power	300W	600W	1200W	2000W	1400W	2000W	4200W
Output Amps	0.625A	1.25A	2.5A	4.16A	5A	7.08A	10.41A
Code 12V	PM-A-0150AH12	PM-A-0300AH12	PM-A-0600AH12	PM-A-1000AH12	PM-A-1200AH12	PM-A-1500AH12	PM-A-2500AH12
Code 24V	—	—	PM-A-0600AH24	PM-A-1000AH24	PM-A-1200AH24	PM-A-1500AH24	PM-A-2500AH24
Dimensions L x W x H	115x101x63	189x101x63	245x176x85	360x236x83	330x275x110	480x275x110	510x275x110
Code 12V with charger				PM-A-1000CA12	PM-A-1200CA12	PM-A-1500CA12	PM-A-2500CA12
Code 24V with charger				PM-A-1000CA24	PM-A-1200CA24	PM-A-1500CA24	PM-A-2500CA24

Specification

• AC output voltage:	230V	• Low battery shut-down 12V:	9.8V	• Cooling fan	Yes
• Regulation:	$\pm 0.5\%$	• Low battery shut-down 24V:	19.2V	• Overload protection	Yes
• Low battery alarm 12V:	10.0V	• Frequency ($\pm 1\%$):	50Hz	• Input side short circuit protection	Yes
• Low battery alarm 24V:	19.8V	• Efficiency:	95-98%	• AC output short circuit protection	Yes
• All inverters supplied with battery cables		• Off load current:	0.07A		

PURE SINE WAVE INVERTERS

Pure Sine Wave



600W



1000W



3000W

Max. Continuous Power	150W	300W	600W	1000W	2000W	3000W
Peak Power	300W	600W	1200W	2000W	4000W	6000W
Output Amps	0.6A	1.5A	2.8A	4.3A	8.69A	13A
Code 12V	CZ-150S-12	CZ-300S-12	CZ-600S-12	CZ-1000S-12	CZ-2000S-12	CZ-3000S-12
Code 24V	–	–	CZ-600S-24	CZ-1000S-24	CZ-2000S-24	CZ-3000S-24
Dimensions L x W x H	180 x 105 x 60	260 x 165 x 85	260 x 165 x 85	328 x 165 x 85	416 x 165 x 85	397 x 150 x 153
Code 12V with charger			CZ-600S-12C	CZ-1000S-12C	CZ-2000S-12C	
Code 24V with charger			CZ-600S-24C	CZ-1000S-24C	CZ-2000S-24C	

Specification

- Regulation: 3% CZ type
- DC Input: 10-15VDC
- Charge current (5-8A)
- Working temperature: -10°C to +50°C
- No load power consumption: <0.5W
- Power saving recovery time: 5sec
- Protection: overload, short circuit, over/under input voltage & over temperature



Code A304

British Plug for Inverters

Input

- DC Voltage: 12V or 24V
- Voltage Range: 10-15VDC or 21-30VDC
- No Load Current Draw: <0.5
- Efficiency: >85%
- DC Connector: Cables with clips or

Protection

- Low Voltage Alarm: 10DC ±0.5V or 20.5DC ±1V
- Low Voltage Shutdown: 9.5DC ±0.5V or 19.5DC ±1V
- Overload: Shutdown
- Over Voltage Shutdown: 15.5V or 30.5V
- Over Temperature: Shutdown
- Short Circuit: Fuses

Output

- AC Voltage: 220/230/240VAC
- Waveform: Pure Sine Wave
- Frequency: 50Hz or 60Hz
- AC Regulation: 3%

Environment

- Working Temperature: -10°C to +50°C
- Working Humidity: 20% ~ 90%RH
- Storage Temperature: -30°C to +70°C



DC TO AC INVERTER/CHARGER/POWER MANAGEMENT SYSTEM



CombiPlus - Pure Sine Wave Inverter/ Charger/ Power Management System - Ideal for home, office, caravan etc.

Code	AC Voltage (IN/OUT)	Rated Power	Max Power	Size (mm)	Battery Voltage	Charging Current	Battery Bank Size
CP-1500-122	185-240VAC	1500W	3000W	362 x 258 x 370	12VDC	70A	200-700Ah
CP-3000-122	185-240VAC	3000W	6000W	424 x 258 x 370	12VDC	140A	400-1200Ah

The "CombiPlus" is a powerful true sine wave inverter, a sophisticated battery charger that features adaptive (4-stage) charge technology and a high-speed AC Auto Transfer Switch (ATS) in a single compact enclosure. The "CombiPlus" can also support the Mains Power with battery power when the load increases or the Mains fails. If the load falls, the excess Mains Power is diverted to charge the battery. The unit can also control up to 10 **SS-45C** solar charge controllers to enable solar battery charging. (see page 83)

Features

- Combi-functional, with intelligent shore and generator power management
- Uninterrupted AC power (UPS function)
- Virtually unlimited power thanks to parallel operation
- Three-phase capability
- **Power Control:** Dealing with limited generator, shore side or grid power to avoid sudden loads on generator causing voltage spikes
- **Power Support:** Boosting the capacity of shore or generator power, an innovative feature of the CombiPlus
- Four-stage adaptive charger and dual battery charging
- LCD display for parameter setting and error messages
- Programmable auxillary relay (x3)
- Programmable input current limit for power share
- Communication with max. 10sets of solar chargers (SunStar series)
- Four preset control mode application with AC grid, AC charging and solar charging
- Optional remote panel with LCD display for easy operation at a distance

Specifications

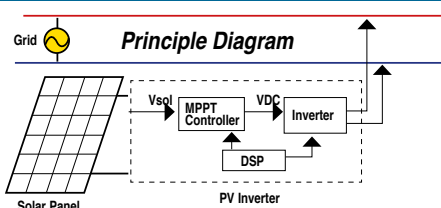
CP-1500-122

- Ventilation: Forced Cooling
- Temperature - Operation: -20°C ~ +70°C
- Storage: -25°C ~ +80°C
- Input Voltage Range: 19-32VDC
- Cont. Power Output: 1500W (No derate)
- Max. Power: 3000W
- Cabinet/ Protection Class: Aluminium/IP20
- Dimensions: 362 x 258 x 370mm
- Weight: 16kg

CP-3000-122

- Ventilation: Forced Cooling
- Temperature - Operation: -20°C ~ +70°C
- Storage: -25°C ~ +80°C
- Input Voltage Range: 19-32VDC
- Cont. Power Output: 3000W (No derate)
- Max. Power: 6000W
- Cabinet/ Protection Class: Aluminium/IP20
- Dimensions: 424 x 258 x 370mm
- Weight: 35kg

ON-GRID PV SOLAR INVERTERS



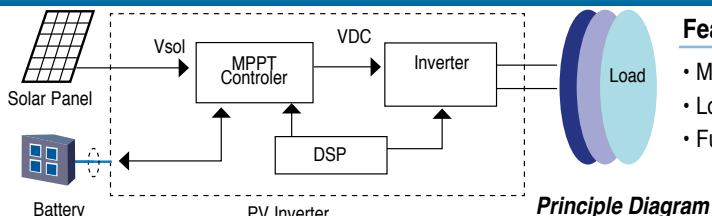
Features

- MPPT efficiency >99%
- Low THDi <3%
- Full DSP control technology
- Perfect protection function
- Intelligent RS232 communication port
- IP65 protection grade for outdoor installation

Code		SPI2000	SPI4000	SPI6000
INPUT	Max. Voltage [V]		600	
	MPPT Voltage Range [V]		320-580	
	MPPT Efficiency		0.99	
	Max. Current [A]	7	15	23
	Max. DC Number		4	
	Max. Number of Strings		4	
OUTPUT	Phase		Single Phase	
	Rated power [W]	2000	4000	6000
	On-Grid Voltage Range [V]		187-264	
	On-Grid Frequency Range [Hz]		49~51	
	Rated Current [A]	9.1	18.2	27.2
	PF		0.99	
	Current THD		<3%	
	Panel Display	LCD displays running information, LED indicates running status		
SAFETY & PROTECTION	Input and Output Isolation	Full Isolated transformer		
	DC-Bus Over Voltage Protection	YES		
	Ground Fault Protection	YES		
	Islanding Protection Monitor	YES (Complies with standard: VDE0126-1-1)		
	Alarm	Sound, light alarms and remote alarm communication		
OTHER	Communications Interface	RS232 and RS485		
	Dimension (W*H*D) (mm)	350 x 550 x 170		
	Weight (Kg)	28	32	40
	Protection Grade	IP65, meet IEC60529 standard		

Code	Solar system kit	SPI2000-KIT	SPI4000-KIT	SPI6000-KIT
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OFF-GRID PV SOLAR INVERTERS



Features

- MPPT efficiency >99%
- Low THDi <3%
- Full DSP control technology
- Perfect protection function
- Intelligent RS232 communication port

Code		SOI0512	SOI1048	SOI2048	SOI4096	SOI60192
INPUT	PV Battery Max. Voltage (V)	17	68		138	600
	MPPT Voltage Range (V)	10-17	40-68		80-138	320-580
	MPPT Voltage (VDC)	12	48		96	192
	Max. Number of Strings			4		
OUTPUT	Voltage (VAC)			220±2%		
	Rated Power (VA)	500	1000	2000	4000	6000
	Rated Current (A)	2.25	4.5	9	18	27
	Frequency (Hz)			50±0.5		
	Current THD			<3% (Output at full liner load)		
	Efficiency			≥90%		
BATTERY MANAGEMENT	Charger	MPPT Control				
	Battery Low Voltage Protection	YES				
SAFETY & PROTECTION	Input and Output Isolation	Full Isolated transformer				
	DC-Bus Over Voltage Protection	YES				
	Ground Fault Protection	YES				
	Solar & Battery Polarity Reverse Protection	YES				
	Alarm	Sound, light alarms and remote alarm communication				
OTHERS	Display Panel	LCD indicates running information, LED indicates running status				
	Communication Interface	RS232 and RS485				
	Dimension (W*H*D) (mm)	460 x 430 x 88			350 x 550 x 170	

Code	Solar system kit	SOI0512-KIT	SOI1048-KIT	SOI2048-KIT	SOI4096-KIT	SOI60192-KIT
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SOLAR PANELS

These photovoltaic modules are designed for both commercial and domestic applications suitable for off-grid and grid-tied systems, and offer both high performance and reliability.

NEW



(Poly) Multicrystalline PV Module (Lower cost)

Code	Maximum Power (Pmax)	Voltage @ Pmax (Vmp)	Current @ Pmax (Imp)	Open-Circuit Voltage (Voc)	Short-Circuit Current (Isc)	Dimensions L x W x H
SLP005-12	5W	17.0V	0.29A	21.6V	0.34A	320 x 200 x 18mm
SLP010-12	10W	17.0V	0.58A	21.6V	0.68A	359 x 305 x 18mm
SLP020-12	20W	17.2V	1.16A	21.6V	1.31A	680 x 426 x 30mm
SLP030-12	30W	17.4V	1.72A	21.5V	1.89A	680 x 426 x 30mm
SLP040-12	40W	17.4V	2.30A	21.5V	2.53A	800 x 675 x 35mm
SLP050-12	50W	17.4V	2.87A	21.5V	3.18A	800 x 675 x 35mm
SLP060-12	60W	17.4V	3.74A	21.5V	4.11A	800 x 675 x 35mm
SLP080-12	80W	17.4V	4.58A	21.5V	5.03A	1490 x 675 x 35mm
SLP100-12	100W	17.4V	5.74A	21.5V	6.36A	1490 x 675 x 35mm
SLP120-12	120W	17.4V	7.75A	21.5V	8.52A	1490 x 675 x 35mm
SLP170-24	170W	34.8V	4.88A	43.4V	5.36A	1495 x 990 x 40mm
SLP180-24	180W	34.8V	5.17A	43.4V	5.68A	1495 x 990 x 40mm
SLP260-24	260W	34.9V	7.44A	43.7V	8.18A	1956 x 992 x 40mm
SLP270-24	270W	34.9V	7.73A	43.7V	8.50A	1956 x 992 x 40mm

Mechanical Characteristics

Solar Cells: Multicrystalline solar cells

Construction: Front High-transmission 3.2mm tempered glass; encapsulate: EVA; Back: TPT

Frame: Clear anodized aluminium alloy (silver)

Module Warranty: 25yr limited warranty of 80% power output;
10yr limited warranty of 90% power output;
5yr limited warranty of materials and workmanship



Flexible Solar Modules

NEW



Applications

Boating
Camping
Water Pumping
Rural Electrification

Features

- Portable
- Ultra light-weight
- Flexible construction
- Damp-proof and highly durable
- Laminated on polymer (no glass)
- Improved thin film technology delivers higher energy yield per rated Wp, owing to a low temperature co-efficient and excellent performance under low-light conditions
- Modules designed and manufactured according to IEC 61646 & IEC 61730 standards



						L x W
FX320	32W	16.5V	1.94A	23.8V	2.40A	1380 x 400mm
FX680	68W	16.5V	4.10A	23.1V	5.10A	2849 x 394mm
FX1440	144W	33.0V	4.56A	46.2V	5.30A	5486 x 394mm

All above data are tested under STC* and NOCT*.

*STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C

*NOCT: Nominal operating cell temperature (the data is only for reference)

Specifications are subject to change without notice at any time.

FX Solar module range is extremely durable and is easily integrated to provide power for a number of applications

SOLAR PANEL MOUNTING SYSTEM

NEW RANGE

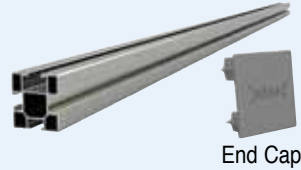
Galvanised Pole Mounting Brackets



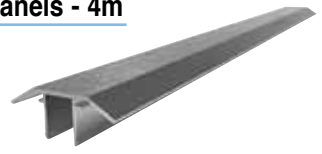
Pre-Assembled Triangle Bracket



Aluminium Profile - 4m



Cover For Gap between Panels - 4m



Watts	1 Panel	2 Panel	BMF4301	Profile BMF4001 End Cap BMF4008 (pack of 10) Profile Joint	BMF4100 Positioning Support
5-10W	DM110	—	Frame Bracket - 4m		
20W	DM120	—			
40-60W	DM175	DM275			
			BMF4302	BMF4003	BMF4110

Solar Panel Clamps (packs of 10)



End Code	Module Thickness	Middle Code	Module Thickness
BMF4021	34	BMF4011	34 ÷ 37
BMF4022	35	BMF4012	38 ÷ 42
BMF4023	36	BMF4013	43 ÷ 47
BMF4024	38	BMF4014	48 ÷ 50
BMF4025	40		
BMF4026	42		
BMF4027	46		
BMF4028	48		
BMF4029	50		

Clamp for Crimped Plate



BMF4501 Adj. Tile Hook



BMF4401

Fixing Plate: 150 x 55 x 5mm

Fixing Bracket



BMF4002

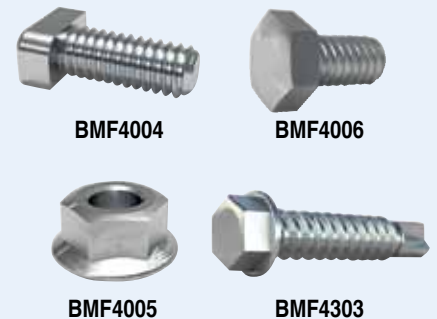
Adj. Roof Tile Hook



BMF4402

Fixing Plate: 50 x 200 x 5mm

Fixing Accessories - Stainless Steel



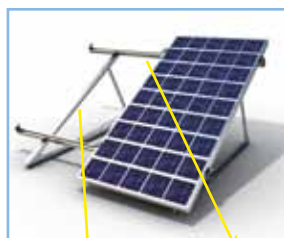
Code	Description	Pack
BMF4004	M8 x 20 Hammer-headed screws	50
BMF4006	M8 x 20 Hexagonal head screws	50
BMF4005	M8 Self-blocking flanged nut	50
BMF4303	4,8 x 32 Self-tapping hex screws	100

Application



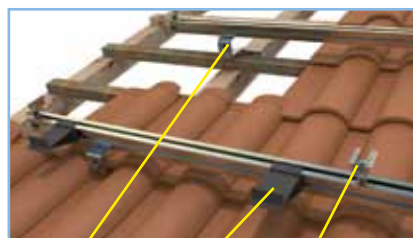
BMF4021/29
End Clamp

BMF4008
End Cap



BMF4301
Triangle Frame

BMF4001
Profile



BMF4401
Tile Hook

BMF4110
Positioning Support

BMF4011/2/3/4
Mid Clamp



BMF4100
Gap Cover

Solar Panel Selection Chart

Code	5W	10W	20-30W	40-60W	80-120W	170-180W	260-270W
BMF4001	• •	• •	• •	• •	• •	• •	• •
BMF4008	•	•	•	•	•	•	•
BMF4100	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •
BMF4003			Only when expanding more than current system				
BMF4110	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •
BMF4021	•	•	•	•	•	•	•
BMF4022				•	•		
BMF4025						•	•
BMF4011	•	•	•	•	•		
BMF4012						•	•
BMF4401/2	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •
BMF4501	10	10	6	6	2	2	2
BMF4004	•	•	•	•	•	•	•
BMF4006	•	•	•	•	•	•	•
BMF4003	•	•	•	•	•	•	•
Panel Qty	11	11	5	5	2	2	2

SOLAR REGULATORS

Charge Controllers



CA Range

Code	Description	Amp's	Volts	Load Shed	S.O.C Indication
CML-05	Solar regulator	5A	12V	Yes	LED Indicators
CA-08	Solar regulator	8A	12V	Yes	LED Indicators
CML-08DS	Solar regulator + Night Light	8A	12/24V	Yes	LED Indicators
CML-10	Solar regulator	10A	12/24V	Yes	LED Indicators
CML-20	Solar regulator	20A	12/24V	Yes	LED Indicators
CX-10	Solar Reg with LCD Meter	10A	12/24V	Yes	LED Indicators
CX-20	Solar Reg with LCD Meter	20A	12/24V	Yes	LED Indicators
SS-30C	Solar Reg with LCD Meter	30A	12/24V	Yes	LED Indicators
SS-45C	Solar Reg with LCD Meter	45A	12/24V	No	LED Indicators
SS-60C	Solar Reg with LCD Meter	60A	12/24V	No	LED Indicators

CML Range



CX Range

CX Range

High End Charge Controller Family. Ideal for industrial uses and equipped with outstanding and unparalleled features like PC interface, built-in 1-year datalogger and system history, and nightlight features for street light applications. German engineering combined with high-quality components make this compact controller able to work in systems of around 1000 Watts!

SS Range

Controller is a three-function controller that provides regulation. Reliable solar battery charging, load control or diversion.

CA Range

Solar Charge Controller. Due to its user-friendly design and technology, the CA offers optimal battery protection for small to medium sized solar home systems. The choice when battery life counts and price matters.

CML Range

Solar Charge Controller/ Daylight Controller. The world's most sold solar charge controller. Unmatched in project business, best value for recreational applications, and extremely user-friendly. Also, can come with daylight function for street lighting and billboard applications.

SS Range



SOL

BATTERIES

Sealed Lead Acid Batteries

Code	Volts	Amp/Hour	Size (mm) L x W x H
SY612	6	1.2A/H	96 x 25 x 56
SY632	6	3.2A/H	125 x 33 x 72
SY640	6	4.0A/H	70 x 47 x 107
SY640-S	6	4.0A/H	65 x 33 x 75
SY1245	12	4.5A/H	90 x 70 x 107
SY1270	12	7.0A/H	150 x 65 x 102
SY12012	12	12A/H	151 x 98 x 102
SY12024	12	24A/H	165 x 126 x 173

Deep-Cycle Batteries

Code	Volts	Amp/Hour	Size (mm) L x W x H
SY12035	12	35A/H	187 x 127 x 200
SY12045	12	45A/H	234 x 127 x 200
SY12065	12	65A/H	257 x 172 x 200
SY12080	12	80A/H	352 x 175 x 226
SY120102	12	102A/H	328 x 171 x 219

Contact ACDC for different sized batteries



BC1

LIGHTNING & SURGE PROTECTION

Special Surge Protection for Invertors (e.g. Wind Turbines)

Code	Class	No. of Poles	Max. Discharge 8/20μS	Up	Uc	Backup MCB	Network	DIN Width	Aux
SLP-880V/3	2	3	40kA	<3.2kV	880V	160A	TN-S/TN-C/TT	3	N

Photovoltaic System Protection

Code	No of Poles	Max Discharge 8/20μS	Nominal Discharge 8/20μS	Up	Uc	Uoc stc	DIN Width
SLP-170PHV/2	2	40kA	15kA	0.8kV	170VDC	170VDC	2
SLP-500PHV/2	2	40kA	20kA	3.6kV	500VDC	580VDC	2
SLP-700PHV/3	3	40kA	20kA	2.4kV	350VDC	700VDC	3
SLP-1000PHV/3	3	40kA	20kA	3.6kV	500VDC	1000VDC	3

Uoc stc refers to the maximum voltage of the photovoltaic panel

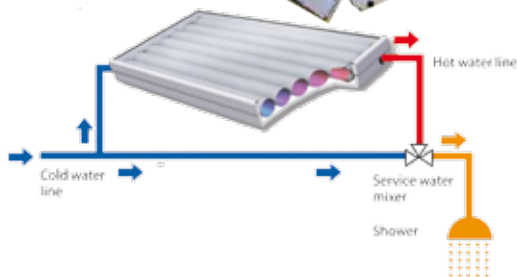
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SOLMATE 2-IN-1 SOLAR HOT WATER SOLUTION (GEYSER)

NEW RANGE



Perfect for use as stand-alone unit or as a prefeed system for a geyser.



Solmate Solar Hot Water Solutions

Solmate is a 2,4m² solar collector with an integrated tank. It offers various benefits such as frost protection, easy installation and aesthetic design. Quick installation saving you time and money. Solmate is the answer, install it on roof and connect your water lines, avoid the headaches of installing a separate water tank. The standard packaging of the Solmate includes a mounting kit, either on-roof (0°) or flat-roof (45°).

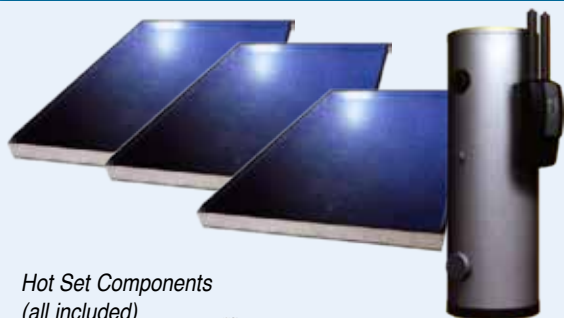
Code	SOL 90-*	SOL 200-*
Number of collectors	1	1
Collector area	1.1m ²	2.4m ²
Tank size in liters	90ℓ	200ℓ
Size (L x W x H)	2184 x 510 x 212mm	2184 x 1100 x 212mm
Max Temp/Pressure	100°C/4 bar	100°C/4 bar
Mounting system 0° / 45°	Incl.	Incl.

*Add mounting angle to code: **0** (On-Roof) or **45** (Flat-Roof)

Accessories

Code	Description
SOL-1279	Optional screw-in heating element (2kW)
SOL-1307	Three-way mixing valve (Service Water Mixer)

SOLAR HOT WATER SET (GEYSER)



Hot Set Components (all included)



Hot Set - Solar Hot Water Systems

The Hot Set System uses a carrying liquid (Polypropylene Glycol) circulating through the collector. This liquid transfers the solar energy to the water which is stored in the inner tank of the system.

Code	HOT 201	HOT 302
Number of collectors	1	2
Collector area	2.3m ²	4.6m ²
Tank size in liters	200ℓ	300ℓ
Solar station with controller SST25	incl.	incl.
Expansion Tank, incl. Capvalve, TP Valve	incl.	incl.
Anti-Freeze	Incl.(5ℓ)	Incl. (5ℓ)

Mounting Kits for Collectors (To be ordered separately)

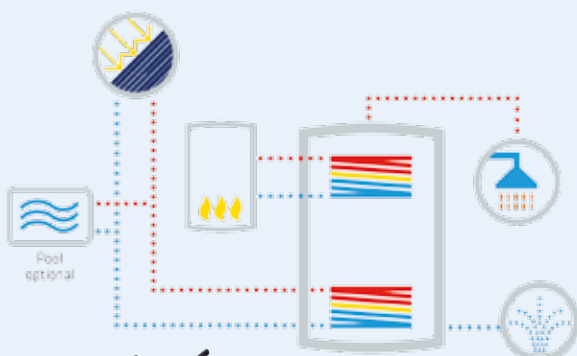
Universal 0°	SOL-3149	SOL-3056
Universal 45°	SOL-3150	SOL-3061
Tile Roof 0°	SOL-3151	SOL-3066

Accessories

Code	Description
SOL-1186	Optional screw-in heating element (2.5kw)
SOL-1039	Filling Pump with container hose and pressure pump (for filling and bleeding the collector system)
SOL-1037/5	Anti-Freeze concentrate 5ℓ (Polypropylene Glycol)
SOL-1037	Anti-Freeze concentrate 10ℓ (Polypropylene Glycol)

Optional Pool Heating System

Code	Description
SOL-3172	Includes heat-exchanger and solar pump For Pools up to 30 000ℓ



Filling Pump



Heating Element



SOLAR CABLE & INSTALLATION TOOLS

Wire Stripper



MET



An automatic stripper for round cables used in PV solar and electric fence installation. Precise adjustment allows easy removal of multiple insulation layers of solar cables from 1,5-6mm².

Wire Stripper



- Stripping depth stop
- Compact wire stripper designed for the solar industry; suits 1.5-Ø6mm
- Side blade cutter

X-PRO 50mm Shears



- Innovative new spring loaded opening action
- For the easy stripping and cutting of cables
- Especially designed blade for cutting of Aluminium and Copper cables up to a size of 50mm²

Maxi Grip



- Wire Shears
- Bi-Component handle for greater cutting force
- Non-slip serrated blades
- Tempered stainless steel blade
- Belt clip holder

Code	STRIP-7-SOLAR	STRIP-SOLARMINI	BM1325	BM1311
------	---------------	-----------------	--------	--------

Solar Cable (100m roll)



Rated Voltage 600/1000VAC 900/1500VDC
Stranded tin-plated copper insulated with XLPE under a PVC jacket

WIR

Code	Size mm ²	Amps
SW101	2.5mm ²	25
SW102	4mm ²	32
SW103	6mm ²	41

SOLAR-FLEX ADHESIVE

Solar-Flex white - 290ml

Code

WST-SAF-W



Elastic one-component adhesive and sealant with fast development of adhesive strength. It contains no substances that hinder the coating of laquer (eg. silicone), no solvents and no isocyanate. Solar-Flex has a very high initial adhesive strength and also enables adhesive bonds on vertical surfaces indoors and outdoors. For strongly stressed adhesive bonds in the following areas:

- Solar Power systems
- Junction Boxes
- Marking systems
- Metalworking
- Tank and apparatus construction.
- Ventilation and air conditioning and wherever silicone or products containing silicone are unsuitable.

Advantages:

- High initial adhesive strength on vertical surfaces
- Broad range of adhesion, even on moist surfaces
- Resistant to weathering and UV
- Free of silicone, isocyanate and halogen
- Solvent-Free, odour-free, non-corrosive
- Sandable & can be painted over even when wet

P3

PV CONNECTORS IP67

- For connecting the panel contacts
- Durable and weather-resistant
- Modules protected by means of one or more diodes
- Temperature Range: -40°C - +90°C
- UV-Resistant
- High-quality contact



Code	Description	mm ²
903709	PV panel box enclosure	2.5-10mm ²

PV MC4 Female Branch Connector

For secure and easy connection of PV modules in parallel. MFF= Male/ Female/ Female Connectors

Code	Description	Units
905228-1	PV MC4 MFF Branch	1

PV MC4 Male Branch Connector

FMM= Female/ Male/ Male Connectors

Code	Description	Units
905229-1	PV MC4 FMM Branch	1

PV MC4 Female Coupling Connector



Code	Description	Core Cross	Cable Ø mm	Units
905207-1	PV MC4 Female Connector 2.5/3-6	2.5	3-6	1
905209-1	PV MC4 Female Connector 2.5/5-9	2.5	5.5-6	1
905211-1	PV MC4 Female Connector 4-6/3-6	4-6	3-6	1
904964-1	PV MC4 Female Connector 4-6/5.5-9	4-6	5.5-9	1

PV MC4 Male Coupling Connector

Material: Contact: CuSn
Casing: PC/PA
UV-Resistant

Technical: Protection: **IP67**
Temperature Range: -40°C - +90°C

Code	Description	Core Cross	Cable Ø mm	Units
905206-1	PV MC4 Male Connector 2.5/3-6	2.5	3-6	1
905208-1	PV MC4 Male Connector 2.5/5-9	2.5	5.5-6	1
905210-1	PV MC4 Male Connector 4-6/3-6	4-6	3-6	1
904963-1	PV MC4 Male Connector 4-6/5.5-9	4-6	5.5-9	1

Solar Tool Kit



Code **PV-BOX**

Aluminium box with foam cushion for PV tools. All tools in storage.

Solar Connector Spanner



Code **PV-STX**

NEW

SOLAR PUMPING SYSTEM



Features

- The system dispenses with energy storage devices, and stores water instead of electricity. It improves the reliability of the device and at the same time, it lowers the construction and maintenance costs of the system dramatically.
- Patented technology adopted for controlling, automatic running, excellent stability and 98% energy conversion ratio.
- Full protection against lightning, dry running, blocking, overload and so on.

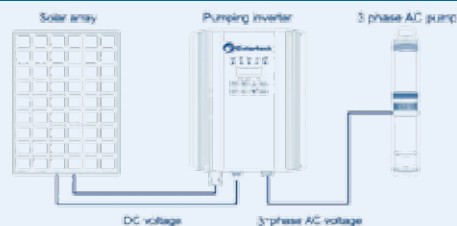
Application

- Desert control
- Sea water desalinization
- Agricultural irrigation
- Daily water supply
- Forest irrigation
- Remote watering troughs for animals
- Wastewater treatment

Code	KW	Description	Head (m)	Flow Water (m³/day)
PS370-1	0.37KW	Solar Pumping System	27-35m	10-7.5m³/day
PS550-1	0.55KW	Solar Pumping System	37-52m	10-7.5m³/day
PS750-1	0.75KW	Solar Pumping System	45-61m	10-7.5m³/day
PS1100-2	1.10KW	Solar Pumping System	54-73m	10-7.5m³/day
PS1500-2	1.50KW	Solar Pumping System	68-91m	10-7.5m³/day
PS2200-1	2.20KW	Solar Pumping System	91-133m	10-7.5m³/day
PS3000-1	3.7KW	Solar Pumping System	118-169m	15-10m³/day
PS4000-1	5.5KW	Solar Pumping System	155-207m	15-10m³/day

NEW

SOLAR PUMPING INVERTER IP41



Code	PV Peak Power (V)	Recommended MPPT Voltage (V)	Rated Output Current (A)	Output Frequency (Hz)	Gross Weight (kg)	Packing Specifications (mm)		
						L	W	H
PB400L	430	280-350	3	0-50	3.2	290	270	205
PB750L	430	280-350	5	0-50	3.2	290	270	205
PB1500L	430	280-350	7	0-50	3.8	325	270	205
PB2200L	430	280-350	11	0-50	3.8	325	270	205
PB3700H	750	500-600	9	0-50	7.1	395	320	265
PB5500H	750	500-600	13	0-50	7.1	395	320	265

Features

Solar pumping inverter converts DC voltage from the solar array into AC voltage to drive the pump. With the function of MPPT (maximum power point tracking), it regulates the output frequency according to irradiation in real time to achieve the maximum power.

Product Advantages

To drive pumps equipped with 3-phase induction motors.
Optimized SPWM (Sinusoidal pulse width modulation).
Various operation modes and MPPT algorithms are available.
Option of water-level detection and control is available.

Adjustable speed range of pump based on the actual situation (available solar power) of the system
Protection functions: lightning, over/low input voltage, over current and overload protection, etc.

SOLAR MODULE ANALYSER



NEW



Code	PROVA200	PROVA300XP
Description	Analyser	Printer
• Voltage range: 0-60VDC • Current range: 0-6A • I-V Curve test for solar cell • Maximum solar power (Pmax) search by Auto-scan (60V, 6A) • Maximum voltage (Vmax) at Pmax		• Maximum current (Imax) at Pmax • Voltage at open circuit (Vopen) • Current at short circuit • Calculation of efficiency (%) • Manual single point test

SOLAR PORTABLE POWER SYSTEM

Accessories included



Code	TEA-6B11-40VA	TEA-6B11-80VA	TEA-6B11-200VA	TEA-6B11-350VA	TEA-6B11-500VA	TEA-6B11-1000VA
Rated Output after Full Charge	40Wh	80Wh	200Wh	350Wh	500Wh	1000Wh
Maximum Output	40VA	80VA	200VA	350VA	500VA	1000VA
Solar Panel Power	5Wp	10Wp	20Wp	40Wp	60Wp	100Wp
Battery: Capacity	3.3Ah/12V	7Ah/12V	20Ah/12V	38Ah/12V	65Ah/12V	100Ah/12V
Code	Spare battery	SY1245	SY1270	SY12024	SY12035	SY12065
Time for Full Charge in Direct Sunlight	12h	12h	18h	18h	18h	18h
Weight: Solar Panel	1.2kg	1.8kg	2.8kg	4.2kg	7.7kg	10.0kg
Main Body	2.5kg	3.5kg	14.5kg	18.0kg	40.0kg	53.0kg
System	3.7kg	5.3kg	12.3kg	22.2kg	47.6kg	63.0kg
Solar Panel Size	235 x 380 x 35mm	315 x 380 x 35mm	565 x 380 x 35mm	550 x 700 x 35mm	600 x 330 x 600mm	600 x 330 x 600mm
DC Outputs	Cigarette Lighter type DC outlet (10A max. @ 12VDC) 2.5mm DC Jack outlet with variable output (0.5A max. @ 5.5/ 7.5/ 9.5VDC) 2 x 2.5mm DC Jack Outlets (3A max. @ 12VDC) USB outlet (0.5A max. @ 5VDC) Terminal posts at the rear of the unit (current rating based on size of unit @ 12VDC)					
DC/AC Inverter: Input/Output (to be ordered separately) Power	DC12V/AC220~240V, 50Hz 100VA	DC12V/AC220~240V, 50Hz 200VA	DC12V/AC220~240V, 50Hz 300VA	DC12V/AC220~240V, 50Hz 600VA	DC12V/AC220~240V, 50Hz 800VA	DC12V/AC220~240V, 50Hz 1500VA

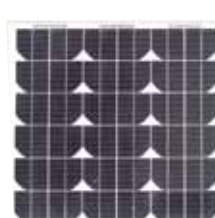
SOLAR HOME LIGHT KIT

NEW



All items can be used for 8 hours once system is fully charged.

Code	JY-60		
Specifications 60W Solar Panel 12V/28Ah Battery Input: Solar Panel or 230VAC/15VDC Adaptor Output: 7 x 12VDC outlets & 1 x USB (5V, 500mA)	Kit includes: • 2 x 12V/3W LED Lamps • 15" DC LCD Colour TV (Antenna is not included) • 16" 14W DC Fan • 8 Hours of use from full battery		
	Spare Lamp <table> <tr> <th>Code</th><th>JY-LAMP</th></tr> </table>	Code	JY-LAMP
Code	JY-LAMP		



All items can be used for 8 hours once system is fully charged.

Code	JY-30		
Specifications 30W Solar Panel 12V/17Ah Battery Input: Solar Panel or 230VAC/15VDC Adaptor Output: 7 x 12VDC outlets & 1 x USB (5V, 500mA)	Kit includes: • 2 x 12V/3W LED Lamps • 1 x Cellphone Charging Adaptor • 12" DC Fan • 8 Hours of use from full battery		
	Spare Lamp <table> <tr> <th>Code</th><th>JY-LAMP</th></tr> </table>	Code	JY-LAMP
Code	JY-LAMP		

SOLAR HOME LIGHTS

Solar Led Torch



Code	BSS-00107
Plug & Play unit with 6hour standby time; 12 super bright LEDs with more than 12 000h life span	Kit includes: • 3.2V 1.3AH rechargeable battery • 1W Solar panel • 0.6W LED torch • Lamp holder

Solar Desk Lamp



Code	BSS-00213
Makes reading at night easy Unit is durable; with more than 12 000h life span	Kit includes: • 3.2V 1.3AH rechargeable battery • 1W Solar panel • 0.6W LED lamp • Cell phone accessories

Solar LED Lantern



Code	BSS-00303-2
Plug & Play unit with 6hour on low and 2hours on Bright; 28 super bright LEDs with more than 12 000h life span	Kit includes: • 6V 4AH rechargeable battery • 2.5 W Solar panel • 1.4W LED lamp

Solar Junior Power Pack



Code	BSS-00311S
• Entry level solar system • Home lighting with more than 12 000h life span Kit includes: • No battery incl. • 2.5W Solar panel • 2 x12 LED downlights • Cell phone accessories • Solar controller • Cable extension	

Solar Shed/Camping Light

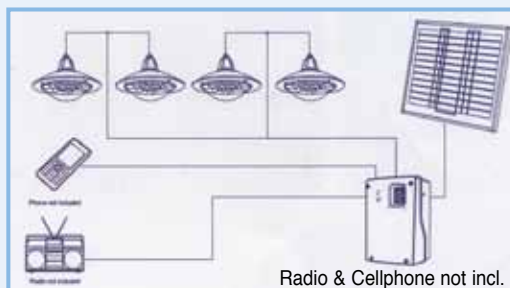


Code	BSL-P0807W
• Solar shed or camping light • 100 000hrs bulb life (5 LED) • Weather-resistant • Up to 5hrs use on full charge • 3 Ni-Mh rechargeable battery (incl.)	

Solar Home Light Kit



Code	BSS-00504S
The kit consists of: • Solar Panel 5W • Controller. c/w 12V battery • 4 x LED Lights 0.6W each • Cell Charger Accessories	



Spare Battery

Code	SY1270
------	--------

Spare LED Lamp



Code	BSS-LAMP
Spare lamp for BSS-00504S and BSS-00311S kits	

Solar TV



Code	JY-60TV
The kit consists of: • Remote • 15" DC LCD Colour TV (Antenna is not included) • DC/AC power supply (For use with solar systems or on any 12VDC power supply)	



Lighting Hours:

The PowerPack is designed for 4hrs of light use each night (with all lamps on) to give 3 days of system use without solar charge. If only 2 lamps used per night, 8hrs of light per night can be achieved for 3 days of system use without solar charge.

TRAVEL SOLAR SYSTEM

NEW



SOLAR BATTERY CHARGING KITS

NEW



NEW



*Supplied in aluminium carry case

Code	GP-SS-40W	SLP10F-12	SLP20F-12	SLP80F-12
Size	540 x 365 x 260mm	302 x 357 x 30mm	576 x 357 x 30mm	706 x 605 x 128mm
Output Power	300W (1.3Amp)/230VAC	10W 12V (0.83A/h)	20W 12V (1.66A/h)	80W 12V (6.667A/h)
Battery	12V 17Ah x 2 Pcs			
Function	135Wh/ day			
Solar Model	20 Wp x 2 Pcs			
Consists of solar module, maintenance-free lead-acid battery, controller, inverter, battery box, bracket, etc.				

Kits include:

- Multi-crystalline solar panel
- Battery clamps and leads (Can be used with standard solar system)
- Heavy-duty anodized aluminium frame and support legs
- Smart solar controller built in to prevent over-charge and solar discharge

SOLAR INVERTER

Solar Inverter, Charger & Controller

NEW



Front Panel



Back Panel

- Output volts 230VAC. Pure sine wave
- Unlimited battery back-up time
- 24 hours operation on inverter
- Includes manual mains by-pass
- RS-232 interface for remote monitoring & On/Off control
- LCD display I/P & O/P volts, frequency, load amps, battery volts
- External solar controller connection

See page 5 for Solar Controllers

Code	HI-1K	HI-2K	HI-3K	HI-5K
Capacity (VA/Watt)	1KVA/700W	2KVA/1.4KW	3KVA/2.4KW	5KVA/3.5KW
Input Volts	24VDC	24VDC	24VDC	48VDC
Nominal Output Voltage	220/230/240VAC			
Battery Charger	25A	20A	20A	20A
Voltage Range	60~135VAC or 150~270VAC			
Acceptable Voltage Range	45Hz~65Hz Auto-sensing			
Frequency	115VAC or 230VAC			
Voltage	<3% RMS for entire battery voltage range			
Voltage Regulation (Bat Mode)	Synchronized to AC Main			
Frequency Regulation	50Hz or 60Hz ± 0.1 Hz			
Line Mode	0.7			
Battery Mode	Pure Sine Wave			
Power Factor	>80%			
Wave Form	>110%, then Buzzer Alarm			
Efficiency	>110%~ 150% for 30Sec; >150% for 200ms, then UPS Shuts Down			
Overload Protection	Circuit breaker			
Line Mode	Electronic Circuit			
Battery Mode				

WIND GENERATOR KITS



Deltatronic wind generators are the latest design in wind generating technology. Units are built for harsh environments using aluminium and stainless steel. Wind speed, vibration and generator RPM are electronically analysed and controlled. Fitted with an emergency electronic braking system. The high quality alternators fitted to the generators are manufactured exclusively for Deltatronic by Ducati energia.

Code	DTWIND-1500	DTWIND-3000
Maximum Power	1500W	3000W
Output Voltage	0-300VAC	0-300VAC
Aux. Voltage	12V x 2 (102Ah batteries)	12V x 4 (102Ah batteries)
Pure Sine Inverter	Yes	Yes
Charge Regulator	Yes	Yes
Start Speed	2.2m/sec (8km/h)	2m/sec (7.2km/h)
Run Speed	12.5m/sec (45km/h)	12.5m/sec (45km/h)
No. of Blades	3	3
Blade Dia	2.1m	3.1m
Temp Range	-20°C to +45°C	-20°C to +45°C
Wind Brake	Yes	Yes

Kits include all accessories except the 6m mounting pole. Mounting pole specification available from our technical department

Spare Parts

Code	Description	Code	Description
6061T6	Aluminium blade for DTWIND-1500/3000	DTKIT-2	Complete body assembly
DTANE	Anemometer, wind monitor	DTALT	Alternator (same for both models)
JACK05	DT Wind System controller	DTINV-1500	1.5kW Inverter for DTWIND-1500
DTKIT-1	Ball bearings, slipring assembly, rectifier, gas shock absorber	DTINV-3000	3.0kW Inverter for DTWIND-3000
		SY120102	12V 102Ah Battery

HYBRID WIND & SOLAR TURBINES



Q-Series are small all-weather wind turbines which produce 400-1000W. These units are small in size, easy to install, low cost, high efficiency, and could be used in a variety of geographical climate conditions.

Kit Code	Q400	Q600	Q1000
Rated Power (W)	400W	600W	1000W
Rated Voltage (DCV)	24	24	24
Rated Current (A)	16	25	41
Rotor Diameter (M)	1.5	1.6	1.8
Start-Up Wind Speed (m/s)	2.5-4	2.5-4	2.5-4
Rated Wind Speed (m/s)	9.6	10.5	13
Max. Wind Speed (m/s)	45	45	45
Wind Turbine Type	Permanent magnet synchronous generator	Permanent magnet synchronous generator	Permanent magnet synchronous generator
Yaw Mode	Mechanical	Mechanical	Mechanical
Wind Turbine Lifespan	15-20yrs	15-20yrs	15-20yrs
Blade Material	Carbon Fibre Reinforced Plastic		
Blade Quantity	3	3	3
Tower Height	6m	6m	6m
Matched Inverter Type	Sine Wave	Sine Wave	Sine Wave

Kit Includes: Sine Wave Inverter, Wind Turbine, Blades and Wind/Solar Hybrid Controller

Hybrid Charge Controller

Code	SPWS05A-24	SPWS06A-24	SPWS10A-24
Wind Turbine Max Power (W)	500W	600W	1000W
Rated Battery Voltage (V)	24V	24V	24V
Wind Turbine Max Input Current (A)	40A	40A	60A
PV Max Charge Current	10A	10A	10A
Display	LCD	LCD	LCD
Output Voltage	28V	28V	28V
Output Current	0-25A(adj)	0-25A(adj)	0-50A(adj)



SOLAR GARDEN OR STREET LIGHTS

NEW



Code	SLS-030	JYSL-8003-AD50	JYSL-8003-AS65	JYSL-8003-DS40	JYSL-8003-FS15
	30W Solar panel. c/w 12V/ 30Ah battery • Lamp 12V 9W LED • Lighting time 8hrs	Complete with solar panel, battery and controller. Many different styles are available with various lighting options and battery configurations. Please contact our sales team for more information.			



SOL-10/24



SNP-90W

Accessories

Code	Description
SOL-10/24	10A/ 24V controller
SOL-20/24	20A/ 24V controller
SOL-45/24	45A/ 24V controller

This controller has an advanced light-control function with an incorporated daylight switch. The lights can also be controlled with built-in timer function. This controller is especially suitable for solar powered street lighting systems.

LU56W-24VDC	LED light 24VDC, cool white(5500K) 28LUX (8m) IP65. Pipe size 60mmØ
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SNP-90W	90W Solar Panels. Open circuit Volts 21.6VDC Size: 1185 x 545 x 35mm
SY12080	80AH 12V Rechargeable, maintenance-free battery
BAT-BOX1	Battery Box for 2 x 80AH/12V batteries + solar controller Size: 560 x 410 x 250mm

- Battery reverse connection protection
- Overload and short-circuit protection
- Battery open-circuit protection
- Deep discharge and over-charge protection
- Solar panel reverse polarity connection protection
- Back-flow from battery to solar module protection
- Lighting surge protection (in case necessary)
- LCD display

LU56W-24VDC



BAT-BOX1



SY12080

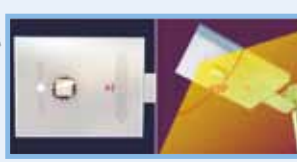
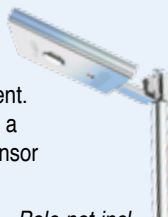
SOLAR SELF-CONTAINED

NEW



- Colour Temp: 6000-7000k
- c/w Lithium battery
- Light is dim when no movement. Luminosity is increased when a person is detected by PIR Sensor

Pole not incl.



Ideal for Eco Estates.
Low cost installation-no cabling

Code	LS48-5	LS48-8	LS48-10
Power	5W	8W	10W
Solar Module	12W	18W	23W
Lumen Bright Mode	410lm	680lm	810lm
Lumen Dim Mode	120lm	200lm	270lm
Working Time	8hrs (bright) 24hrs (dim)	8hrs (bright) 24hrs (dim)	10hrs (bright) 30hrs (dim)
Installation Height	2.5-3m	3-4m	3-5m
Dist. btwn. Poles	8-10m	10-15m	13-18m
LUX	8.6lux @3m	9.4lux @ 4m	7.9lux @ 5m
Size LxWxD	568 x 306 x 56mm	688 x 306 x 56mm	818 x 306 x 56mm

ELIMINATE THEFT

LED SOLAR LAMPS IP67

Plastic Series

Batteries Included



Code IP44	RW-SF-03-8	RW-SF-03-2	RW-SF-02-1	RW-SF-03-4
Size (mm)	320H x 115Ø	455H x 120Ø	605H x 138Ø	325H x 125Ø
Type	1 x LED	1 x LED	1 x LED	1 x LED
Batteries:	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh

Stainless Steel Series

Batteries Included



Code IP44	RW-SLS004	E2009	RW-SLS001	RW-SLS002	RW-SLS003
Size (mm)	360H x 115Ø	620H x 150Ø	307.5H x 150Ø	480H x 170Ø	365H x 125Ø
Type	1 x LED	1 x LED	1 x LED	1 x LED	1 x LED
Batteries	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh

DC ENERGY SAVING LAMPS



Code	Code	Watts	Length (mm)	Lumen
FE1-7-E27**	FE1-7-B22**	7W	124	238lm
FE1-9-E27**	FE1-9-B22**	9W	136	367lm
FE1-11-E27**	FE1-11-B22**	11W	146	449lm
*Supply Voltage: 12VDC, 24VDC, 48VDC				
*Add "-CW" for cool white or "-WW" for warm white at end of code. eg. FE1-7-E27-CW				
FE27-15-E27**	FE27-15-B22**	15W	139	701lm
FE27-20-E27**	FE27-20-B22**	20W	164	935lm
* Supply Voltage: 12VDC, 24VDC, 48VDC				
*Add "-CW" for cool white or "-WW" for warm white at end of code. eg. FE27-15-E27-CW				
-	FE36-5-B22-WW*	5W	108	180lm
-	FE36-7-B22-WW*	7W	108	270lm
-	FE36-9-B22-WW*	9W	117	400lm
-	FE36-11-B22-WW*	11W	136	500lm
*Supply Voltage: 12VDC, 24VDC				

8000 Hours Life

15 000 Hours Life

CFI-9-E27-12VDC	-	9W	140	367lm
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Stainless Steel In-ground Series

Batteries Included

** battery life: 3 years



Code IP44	RW2LED-120	RW3LED-120	RW-SLR001
Size (mm)	120Ø x 350D	120Ø x 350D	120Ø x 350D
Type	2 x white LED	3 x white LED	1 x LED
Batteries	1 x NiMh 600mA	2 x NiMh 600mA	1 x NiMh 600mA



Floating Lamps



Spot Lamps



Code IP67	RW-SLB003	RW-SLB002	RW-SLP006
Size (mm)	120Ø	160Ø	160D x 85W x 330H
Material	Plastic	Plastic	Plastic
Type	2 x LED	2 x LED	1 x LED
Batteries	1 x NiMh 600mA	1 x NiMh 600mA	1 x NiMh 600mA

NEW

ENERGY SAVING PRODUCTS



Geyser Controller with Embedded Microprocessor

Geysers are the largest user of electricity in most households using up to 60%. GC-100 geyser controller will save 40%-60% of geyser usage.

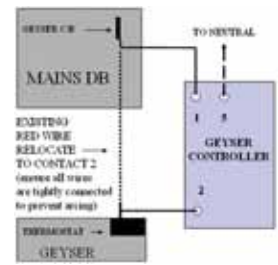
Code GC-100

Features

- Immediate saving from first monthly bill.
- Ensures geyser is off during peak periods
- Back-up battery to retain memory
- Override switch geyser off and on
- 8 Pre-programmable time periods

Technical Info

- Input Voltage: 220/ 240VAC 50Hz
- Mounting: Din Rail
- Memory: 120 day battery
- Current Sensor: 20Amps
- Relay output 20A



NEW



ES15



ES100



ES300

Passive Power Factor Correction

Power Factor Correction (PFC) is a technique of counteracting the undesirable effects of electric loads that create a power factor less than one. This range of passive (PFC) units can save 10%-20% of energy consumption.

Code

Description

Dimensions

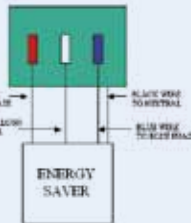
ES15	Single-Phase (1000kwh) 16A SA plug-in type	95 x 56 x 56
ES100	Single Phase (2000kwh)	125 x 85 x 60
ES300	Three-Phase (6200Kwh)	190 x 140 x 70D
ES3001	Three-Phase (10 000Kwh)	240 x 190 x 90D
ES3002	Three-Phase (15 000Kwh)	240 x 190 x 90D

Features

- Prolongs life of appliances
- Stabilise electrical current
- Available in single and three-phase
- Suitable for home, shops, offices, restaurants, etc.

Technical Info

Single-Phase voltage: 220-240VAC 50Hz
Three-Phase voltage: 380-420VAC
Operating temperature: 60°C (max.)



The three-phase energy saver can be wired either at the DB or the incoming Eskom box.
Note: As long as the black is connected to neutral, it does not matter which of the other wires connect to which phase.

NEW



Combination Geyser/ Power Factor Protection & Surge Protection

Combination units consist of both geyser controller and passive power factor (energy saving). These are parallel connection types, for single and three phase units, some available fitted with surge protection.

Code

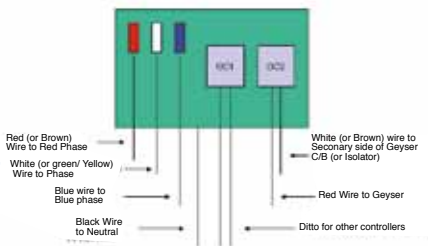
Description

Dimensions

ES100-GC	Single phase power + Geyser controller	170 x 200 x 85mm
ES100-GC-SS	Single phase power + Geyser + Surge protection	170 x 200 x 85mm
ES100-2GC-SS	Single phase power + 2 x Geyser + Surge protection	170 x 200 x 85mm
ES300-GC	Three phase power + Geyser controller	210 x 215 x 100mm
ES300-GC-SS	Three phase power + Geyser + Surge protection (3ph+N)	210 x 215 x 100mm
ES300-2GC-SS	Three phase power + 2 x Geyser + Surge protection (3ph+N)	210 x 215 x 100mm

Technical Info

Single-Phase voltage: 220-240VAC 50Hz
Three-Phase voltage: 380-420VAC
Surge Protection: 65kA



WIRELESS POWER DISPLAY UNIT

Monitor your own electricity and save power and money!

NEW



With the standard electricity In-Home-Display unit, you can clip the current sensor around the electricity meter's live feed supply such that it measures the total electrical power entering your home or office. Power consumption will be recorded and transmitted to the display unit wirelessly.

The following features are provided also:

- Dual battery system is used to extend operation period and to prevent data lost during battery changing
- Indicate existing cost alert level by Tri-color LED
- Display temperature and current time
- Clock alarm and cost alert level setting
- Monitor up to 8 sensors
- Support >30m RF transmission

This product is a semi-portable communication product used in the household market. You can view the instant electricity consumption, cost-up-to-current-hour and records (eg. hourly, daily, weekly, and monthly) as well as estimated CO₂ emission produced. Transmitting frequency 433MHz with proprietary communication coding for different market segments.

(1-Phase) Monitoring System

Code	Kit Description
AML-1208	• 1 x Current sensor • 1 x Sender unit • 1 x Display unit • 4 x Batteries • 1 x User Manual • 1 x Desk Stand

(3 Phase) Monitoring System

*Add 2 x Current Sensor (AML-CS) + AML-1208

Code	Description
AML-CS	Current Sensor

LED ROAD LIGHTING

NEW

Solar Powered Road-Side Warning Lights



Single sided



Double sided



Pole mount Ø 26mm



Pole mount Ø 50mm

Code	RH-4803-Y	RH-4804-Y	RH-4603-Y	H-931-Y
Battery	1.5V/1200mAh (Ni-Cd)	1.5V/1200mAh (Ni-Cd)	1.2V/1800mAh (Ni-Cd)	2V/2.5Ah (Lead-Acid)
LED qty	2 pc (8mm)	2 pc (8mm) x 2	6 (10mm)	8 x 1 (5mm)
Flash Rate	65 Flashes/min	65 Flashes/min	150 Flashes/min	120 Flashes/min
Size (mm)	326 x 163 x 29	326 x 163 x 29	Ø115 x 65 x 166	Ø386 x 100
Colour	Yellow (other colours on request)			



Solar Warning Light IP67 - Size: Ø166 x 155H



Code	XHL-C6009-2-*-†	XHL-C6009-1-*-†	Code	DWS301-*	DWS302-*
Battery	6V/ 10Ah (Lead-Acid)	6V/ 20Ah (lead-Acid)	Type	Steady on	Flashing
LED qty	33 (5mm)	60 (5mm)	Night Visibility	3,6km	3,6 - 6km
Flash Rate	60 Flashes/ min	60 Flashes/ min (flowing)	Operating Time	70Hrs	140Hrs
Size (mm)	750 x 600 x 60	1600 x 480 x 60	Battery	4.6Ah NiMh	4.6Ah NiMh

*Add LED colour to code: ● Y (Yellow), ● R (Red)

†Add arrow direction: L (Left), R (Red)

*Add colour to code: ● R (Red), ● A (Amber), ● BL (Blue), ● GN (Green), ● W (White)

ROAD STUDS
Batteries Included
** battery life: 3 years

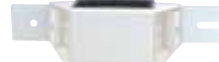


Code	RWSD-012-*	RWSD-006-*	*RWSD-009	RWSD-010	RWSD-011
Size (mm)	100L x 100W x 20H	118L x 115W x 25H	108L x 108W x 18H	140L x 130W x 28H	102L x 82W x 23H
Material	PC	PC	PC	Aluminium	PC
Type	Reflector	4 x LED	4 x LED	4 x LED	4 x LED
Batteries	—	1 x NiMh 700mAh	1 x NiMh 700mAh	1 x NiMh 700mAh	1 x NiMh 700mAh
Flicker Freq.	—	90/min	90/min	90/min	90/min
Duration Time	—	7 day	7 day	7 day	7 day

*Add colour to code: ● Y (Yellow), ● R (Red), ○ W (White) *LED colour: ● Y (Yellow), other colours available on request.

SOLAR ROAD LIGHTS

NEW



Code	TEA-1B02-BH	TEA-1B03*-BH	TEA-1B03C-BH	TEA-1E10A-BH
Solar cell				
Power	2250mWp	350mWp	400mWp	500mWp
Current	400mA	85mA	100mA	125mA
Voltage	5.5V	4.0V	4.0V	4.0V
Storage component				
Category	NiMh Battery	NiMh Battery	NiMh Battery	NiMh Battery
Capacity	8000mAh	800mAh	1200mAh	1200mAh
Voltage	3.6V	2.4V	2.4V	2.4V
Colour	Amber	White	White	Amber
Lighting Mode	Fast Flash ± 75/min	Steady On	Steady On	Fast Flash ± 60/min
Working Time after full charge	80h	80h	80h	30h
Size	650 x Ø98 x 240H	250L x 78H x 50D	250L x 78H x 50D	Ø103 x 150H
Average life	4 Years	4 Years	4 Years	4 Years

*Add to code: A for right LED display; B for left LED display

AUTOMATIC MAINS FAILURE PANELS IP54

NEW



KVA	A/PH AC2	AMF Panel with DSE720 Controller		AMF Panel with EAOM-210FDS Controller		Manual Start Panel with DSE501K-1	
		12V	24V	12V	24V	12V	24V
10	14	MF1C-010	MF2C-010	MF1S-010	MF2S-010	MF1M-010	MF2M-010
15	21	MF1C-015	MF2C-015	MF1S-015	MF2S-015	MF1M-015	MF2M-015
20	28	MF1C-020	MF2C-020	MF1S-020	MF2S-020	MF1M-020	MF2M-020
25	36	MF1C-025	MF2C-025	MF1S-025	MF2S-025	MF1M-025	MF2M-025
30	43	MF1C-030	MF2C-030	MF1S-030	MF2S-030	MF1M-030	MF2M-030
35	50	MF1C-035	MF2C-035	MF1S-035	MF2S-035	MF1M-035	MF2M-035
40	57	MF1C-040	MF2C-040	MF1S-040	MF2S-040	MF1M-040	MF2M-040
45	64	MF1C-045	MF2C-045	MF1S-045	MF2S-045	MF1M-045	MF2M-045
50	72	MF1C-050	MF2C-050	MF1S-050	MF2S-050	MF1M-050	MF2M-050
60	86	MF1C-060	MF2C-060	MF1S-060	MF2S-060	MF1M-060	MF2M-060
80	115	MF1C-080	MF2C-080	MF1S-080	MF2S-080	MF1M-080	MF2M-080
100	144	MF1C-100	MF2C-100	MF1S-100	MF2S-100	MF1M-100	MF2M-100
120	173	MF1C-120	MF2C-120	MF1S-120	MF2S-120	MF1M-120	MF2M-120
150	216	MF1C-150	MF2C-150	MF1S-150	MF2S-150	MF1M-150	MF2M-150
175	252	MF1C-175	MF2C-175	MF1S-175	MF2S-175	MF1M-175	MF2M-175
200	288	MF1C-200	MF2C-200	MF1S-200	MF2S-200	MF1M-200	MF2M-200
250	360	MF1C-250	MF2C-250	MF1S-250	MF2S-250	MF1M-250	MF2M-250
300	433	MF1C-300	MF2C-300	MF1S-300	MF2S-300	MF1M-300	MF2M-300
400	577	MF1C-400	MF2C-400	MF1S-400	MF2S-400	MF1M-400	MF2M-400
450	649	MF1C-450	MF2C-450	MF1S-450	MF2S-450	MF1M-450	MF2M-450
500	721	MF1C-500	MF2C-500	MF1S-500	MF2S-500	MF1M-500	MF2M-500

For features on controllers, see main catalogue page 184 & 185

Panels include:

- Controller
- Changeover contactors mechanically interlocked
- Battery Charger
- Circuit Breakers for mains and generator

DIGITAL GENERATORS - 230VAC IP33

NEW



Code	IG1000	IG1000S	IG2000	IG2000S	IG2600
Rated kVA/kW	0.9/0.81	0.9/0.81	1.6/1.44	1.6/1.44	2.3/2.07
Rated Current	3.9A	3.9A	7A	7A	10A
Overall Dimensions	460 x 248 x 395mm	610 x 248 x 405mm	515 x 300 x 430mm	670 x 300 x 430mm	577 x 323 x 460mm

Product Features

- Clean, high quality output that can power the most sensitive electronic equipment
- Lightweight and compact design for maximum portability and efficiency
- Low noise design is optimized for efficiency resulting in a clean, efficient, low-noise digital generator
- Kipor Digital Generators feature low emission, fuel efficient engines and they are quiet, making them among the most environmentally friendly generators on the

- market
- Microprocessor control instantly senses high overload condition and shuts unit down
- Digital control varies engine speed to load for superior engine performance and power management
- Ideal for RV, campground and home applications



SINGLE PHASE PETROL GENERATORS - 230 VAC



KGE2500X



KGE6500E/X



KGE12E



Code	Petrol Open Frame IP23					Petrol Silent - Digital IP33	
	KGE2500X	KGE4000X	KGE6500E	KGE6500X	KGE12E	IG3000	IG6000
Rated Output kVA/kW	2/1.8	3/2.7	5/4.5	5/4.5	8.5/7.65	2.3/2.07	5.5/4.95
Starting	Recoil	Recoil	Electric	Recoil	Electric	Electric/ Recoil	Electric
DC Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rated Current	8.7A	13A	21.7A	21.7A	36.9A	9.6A	23.9A
Engine Type	Single cylinder, 4 stroke, Air cooled	Single cylinder, 4 stroke, Air cooled	Single cylinder, 4 stroke, Air cooled	Single cylinder, 4 stroke, Air cooled	V-Twin, 4 stroke, Air cooled	Single cylinder, 4 stroke, Air cooled	Single cylinder, 4 stroke, Air cooled
Fuel Tank	25ℓ	30ℓ	30ℓ	30ℓ	25ℓ	13ℓ	22ℓ
Displacement	196cm³	277cm³	389cm³	389cm³	688cm³	196cm³	389cm³
Size (mm)	590 x 430 x 430	675 x 520 x 540	675 x 520 x 540	675 x 520 x 540	910 x 600 x 760	684 x 440 x 505	802 x 495 x 624
Dry weight	43kg	71kg	90kg	83kg	161kg	57kg	96.5kg
Noise Level (7m)	66dB	69dB	74dB	74dB	77dB	63-73dB	65-75dB
Standard Items	Fuel gauge, voltmeter, AVR, Engine oil alarm, Circuit breaker, Battery for electric start					Indicator light, Overload protection, Low oil alarm, Battery	
Wheels	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.

SINGLE PHASE DIESEL GENERATORS - 230VAC



KDE3500X/E



KDE12EA



KDE6500T



KDE19STA

Code	Diesel Open Frame IP23					Diesel Silent IP33				
	KDE3500E	KDE3500X	KDE6500E	KDE6500X	KDE12EA	KDE3500T	KDE6500T	KDE12STA	KDE19STA	KDE25SS
Rated Output kVA/kW	2.8/2.52	2.8/2.52	4.5/4.05	4.5/4.05	8.5/7.65	2.8/2.52	4.5/4.05	8.5/7.65	14.4/13	18.5/16.65
Starting	Electric	Recoil	Electric	Recoil	Electric	Electric	Electric	Electric	Electric	Electric
DC Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A
Rated Current	12.2A	12.2A	19.6A	19.6A	37A	12.2A	19.6A	37A	62.6A	80A
Engine Type	Single Cylinder, 4-Stroke, Air cooled	Single Cylinder, 4-Stroke, Air cooled	Single Cylinder, 4-Stroke, Air cooled	Single Cylinder, 4-Stroke, Air cooled	V-Twin, 4-Stroke, Water cooled	Single Cylinder, 4-Stroke, Air cooled	Single Cylinder, 4-Stroke, Air cooled	V-Twin, 4-Stroke, Water cooled	3-cylinder, 4-Stroke, Water cooled	4-cylinder, 4-Stroke, Water cooled
Fuel Tank	13.5ℓ	13.5ℓ	13.5ℓ	13.5ℓ	25ℓ	15ℓ	15ℓ	26ℓ	38ℓ	95ℓ
Displacement	296cm³	296cm³	418cm³	418cm³	794cm³	296cm³	418cm³	794cm³	1048cm³	2771cm³
Size (mm)	655x480x530	655x480x530	720x492x655	720x492x655	1030x600x790	830x532x740	912x532x740	1350x795x850	1540x700x810	1900x950x1200
Dry weight	70kg	65kg	100kg	95kg	200kg	140kg	158kg	310kg	442kg	960kg
Noise Level (7m)	77dB	77dB	77dB	77dB	85dB	72dB	72dB	72dB	72dB	51dB
Standard Items	See single phase specs above.				See three phase silent	See single phase specs above.			See three phase silent	
Wheels	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	-

NEW
RANGE

THREE PHASE GENERATORS - 400VAC



KGE6500E3/X3



KDE12EA3



KDE6500T3

Code	Petrol Open Frame IP23			Diesel Open Frame IP23			Diesel Silent IP33	
	KGE6500E3	KGE6500X3	KGE12E3	KDE6500E3	KDE6500X3	KDE12EA3	KDE6500T3	KDE12STA3
Frame type	Open	Open	Open	Open	Open	Open	Silent	Silent
Rated Output kVA/kW	5.5/4.4	5.5/4.4	9.5/7.6	5.5/4.4	5.5/4.4	10/8	5.5/4.4	10/8
Starting	Electric	Recoil	Electric	Electric	Recoil	Electric	Electric	Electric
Rated Current	8A	8A	13.7A	7.9A	7.9A	14.5A	7.9A	14.5A
Engine Type	Single cylinder, 4 stroke, Air cooled	Single cylinder, 4 stroke, Air cooled	V-Twin, 4 stroke, Air cooled	Single cylinder, 4 stroke, Air cooled	Single cylinder, 4 stroke, Air cooled	V-Twin, 4 stroke, Water cooled	Single cylinder, 4 stroke, Air cooled	V-Twin, 4 stroke, Water cooled
Fuel Tank	30ℓ	30ℓ	25ℓ	13.5ℓ	13.5ℓ	25ℓ	15ℓ	26ℓ
Displacement	389cm³	389cm³	688cm³	418cm³	418cm³	794cm³	418cm³	794cm³
Size (mm)	675 x 520 x 540	675 x 520 x 540	910 x 600 x 760	720 x 492 x 655	720 x 492 x 655	1030 x 600 x 790	912 x 532 x 740	1350 x 795 x 850
Dry weight	90kg	83kg	161kg	100kg	95kg	200kg	165kg	310kg
Noise Level (7m)	74dB	74dB	77dB	79dB	79dB	85dB	72dB	72dB
Standard Items	See single phase petrol specification			See single phase petrol specification			See single phase petrol specification	See below
Wheels	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.

THREE PHASE SILENT DIESEL GENERATORS - 400VAC IP44



KDE13SS3



KDE35SS3



KDE100SS3

Code	Diesel Ultra Silent							
	KDE13SS3	KDE20SS3	KDE30SS3	KDE35SS3	KDE45SS3	KDE60SS3	KDE75SS3	KDE100SS3
Rated Output kVA/kW	10.6/8.5	17/13.6	24/19.2	28/22.4	37/29.6	50/40	62/49.6	80/64
Starting	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
Rated Current	15.3A	24.5A	34.6A	40.4A	53.4A	72.2A	89.5A	115A
Engine Type	3-cylinder, 4-stroke, Water cooled	4-cylinder, 4-stroke, Water cooled	4-cylinder, 4-stroke, Water cooled	4-cylinder, 4-stroke, Water cooled, Turbo charged	4-cylinder, 4-stroke, Water cooled	4-cylinder, 4-stroke, Water cooled, Turbo charged	6-cylinder, 4-stroke, Water cooled	6-cylinder, 4-stroke, Water cooled, Turbo charged
Fuel Tank	65ℓ	65ℓ	95ℓ	95ℓ	95ℓ	95ℓ	110ℓ	110ℓ
Displacement	1642cm³	2190cm³	2771cm³	2771cm³	4330cm³	4330cm³	6494cm³	6494cm³
Size (mm)	1570 x 780 x 1050	1570 x 780 x 1050	1900 x 950 x 1200	1900 x 950 x 1200	2250 x 950 x 1300	2250 x 950 x 1300	2700 x 1140 x 1500	2700 x 1140 x 1500
Dry weight	685kg	720kg	960kg	985kg	1270kg	1310kg	1650kg	1680kg
Noise Level (7m)	51dB	51dB	51dB	51dB	51dB	51dB	51dB	51dB
Included	Ammeter, Voltmeter, Frequency meter, Timer, Battery Voltmeter, Starting Failure Display, Charge Fault Display, Emergency Stop, AVR, Fuel Gauge, Circuit Breaker, Electronic Fuel Pump, ATS Interface and Battery.							
Protection	High water temp, Low oil pressure, over/under voltage, over/under frequency							



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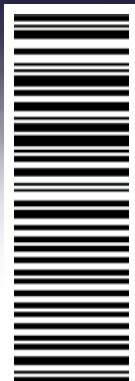
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