

Section T

UPS, Board & Cord

UPS Technical	T2
Rack Mountable UPS	T3
Power Boards, Surge Protectors & Power Adaptors	T4
Green Power & Energy Saving 8 Way Surge Protected Power Manager	T5
External Power Supply Cords	T6-T7
Extension Cords	T8

UPS Technical & Rack Mountable UPS

What does a UPS do?

CABAC UPS's serve three functions.

- **Standby Power** - A UPS acts as a stand by power unit, which keeps equipment running for a short period, allowing work to be saved and the equipment to be switched off systematically. This switch off process can be automated using the RS232 port and software supplied with the unit.
- **Power Conditioning** - A line interactive UPS conditions the power, using AVR (Automatic Voltage Regulation) circuitry and spike protection, which supplies clean power all the time, extending equipment life. This regulates the input voltage from 165 to 275V, out-putting 240V. Outside of this range, the backup battery kicks in.
- **Telephone/Fax/Modem Protection** - The UPS has two RJ12 ports for telephone line in, and line out. This protects the telephone line against lightning surges.

UPS Sizing

It is important not to exceed a UPS's rated VA. If too much equipment is connected, the UPS will not be able to supply the connected load, and will fail. To size your requirements, determine the VA for all connected equipment.

1. Read the name plate of each unit and look for: VA consumption; A or Amps; Watts
2. Convert all in (a) above to VA
 - Multiply Amps or A by 240, so typically a laptop power unit will be $0.6A \times 240 = 144VA$
 - For Watts - use a power factor correction of 0.7, so divide the Watts figure by 0.7 (or multiply by 1.4) to get the correct VA. For example, a monitor will have a 100W load. The nominal VA will be $100 \times 1.4 = 140VA$
3. Add up the total VA that you have worked out above, for all units that you want to connect, and allow a bit for expansion, (typically the router or modem you have forgotten about), and this will give the answer. Buy a UPS with a VA rating above what you have worked out as a UPS will not supply more than its rating.

Typical VA loads

Listed below are nominal VA loadings of typical day to day office and computer equipment. These will act as a guide, please use them with care

• Desktop Computer		• Monitor		• Fax	100VA
- Small	300VA	- CTR		• Modem, Router	25VA
- Medium	500VA	- 15"	300VA	• Switch	
Laptop Computer	75 to 300VA	- 19"	500VA	- Desktop 5/8 Port	25VA
		- Flat Screen 17"	200VA	- Rackmount	100VA

Note: The VA values noted above are estimates and measuring or calculating each item will give a more accurate estimate. It is good practice to add at least 30% more capacity for safety. A UPS cannot supply more than its rating.

Equipment you should NOT connect to a UPS

Highly inductive loads can damage a UPS, so CABAC does not recommend connecting anything with motors in them, in particular Laser Printers. Laser Printers have a further problem that they have fairly high peak loads, when warming up. More examples of inductive equipment are – Transformers, Fans, Pencil Sharpeners, Vacuum Cleaners, Drills etc.

Caution

Do not connect power boards to your UPS and leave them lying in the open. This is a perfect invite for someone to plug in the vacuum cleaner!

Rack Mountable UPS - Line Interactive

- Line Interactive technology, means that the power is constantly monitored directly and any variation in output voltage is corrected by use of the battery & internal inverter maintaining a constant 240V output rail.
- Rack/Tower design - Rack mount with simple bolt on flanges for 2 RU rack mounting
- Advanced digital signal processing technology, pure sine wave output
- UPS can communicate with computers using a RS232 port for automatic shutdown using software that is included, and can be remotely monitored
- Self management software, diagnostics, error code indication on a concise graphical display
- Hot swappable batteries
- Cold start and auto-restart options
- Automatic bypass, automatic frequency sync. and 1ms transfer time
- Two year warranty

Catalogue No.	Size	Weight	Dimensions (mm)		
			Length	Width	Height
9113RV2	1000VA	21kg	590	620	230
9114RV2	2000VA	29kg	590	620	230
9115RV2	3000VA	45kg	685	580	270



Rack Front



Rack Back

Standalone UPS - Offline

These units are designed to supply backup power and power conditioning to a home PC or a small office environment.

- Wide input voltage window
- Boost and buck AVR
- Cold start function
- Intelligent CPU control
- SMD technology to save space
- Protection for short circuit and overload
- Both audible and indication lamp alarm functions
- Protection for overcharge, deep discharge and automated charge current regulation
- Wide input frequency range and compatible with small generators
- Intelligent battery management
- Dry contact communication with monitoring software
- Monitor Software supports popular Windows and Linux Operating Systems
- Inclusions: Mains power cable, UPS to computer USB cable, RJ11 phone/Fax cable, User manual and Monitor Software CD "Powermanager Lite"
- Warranty UPS - 2 years; Battery - 6 months.

- UPS600DV3** 600VA
- UPS1000DV3** 1000VA
- UPS1500DV3** 1500VA

Replacement batteries:

- UPSATT7AHDV3** 7AH/12V
- UPSATT9AHDV3** 9AH/12V



UPS1000DV3/ UPS1500DV3



UPS600DV3

Model		600VA	1000VA	1500VA
Capacity		600VA/360W	1000VA/600W	1500VA/900W
Input	Phase	Single phase		
	Voltage Range	165~275Vac±4%		
	Frequency	40~70±1Hz		
Output	Voltage (battery mode)	220V±15		
	Waveform	AC mode: sine wave/Battery mode: square wave		
	Frequency	AC mode: follow utility/Battery mode: 50±0.5Hz		
	Transfer Time	Typical 8ms		
Protection	Surge Protection	320 Joules		
	Input Protection	Compliance with IEEE 587		
	Short Circuit	FUSE		
	Transfer Time	Typical 8ms		
Communication		USB		
Transfer Time		<10mS		
Battery	Type	Sealed lead acid, maintenance free		
	Recharge	After fully discharged, charge 8 hours to 90% capacity		
	Backup Time (full load)	≥3 min		
	Charge Current	maximum 1.2A	maximum 1.5A	
	Battery Configuration	1x12V/7AH	2x12V/9AH	2x12V/9AH
	Replacement battery Part no.	UPSATT7AHDV3	UPSATT9AHDV3	UPSATT9AHDV3
Indication	AC Mode	Green LED on, Red LED off, no beep		
	Charging Battery	Yellow LED on		
	Battery Mode	Green LED and Yellow LED off, Red LED flash, buzzer slow beep		
	Battery Low	Red LED on, buzzer beep twice every second		
	Over temperature	Red LED on, buzzer beep 6 times every second		
	Over load	Red LED on, buzzer beep 4 times every 2.4 second		
	Short circuit	Red LED on		
Other	Audible Noise at 1m	<45dB		
	Temperature	0 - 40° (no condensing)		
	Humidity	5%-95%		
	Net/ Gross Weight	6.3/6.6Kg	12.8/13.3Kg	13/13.7Kg
	Unit Dimension (W×D×H)	95×312×158mm	124×372×223mm	

Power Boards, Surge Protectors & Power Adaptors

Overload Protection 4 and 6 Way Boards

- Low cost basic boards, featuring overload protection
- Handy wall attachment points on the rear of the units
- Cord length 1m

Basic Board

PB7 4 Way

PB8 6 Way



Double Power Adaptors

- These adaptors are designed to double your outlets
- Leaves a switch free
- Ideal for domestic appliances
- Use only with correctly wired regular household PowerPoint (240V max load, 10amps)

PADRH1 2 Way Side by Side

PADV1 2 Way Vertical



PADRH1



PADV1

Power Board 4 Way Individual Switches With Surge Protection

- Overload protection with reset button for up to 4 appliances
- 4 wide socket size suitable for power adaptors
- Individually switched outlets, for maximum convenience
- Flame retardant case with optional wall mounts
- Cable length 1m with a LAN protection RJ11/RJ 45
- Ideal for computer, electrical equipment and domestic appliances
- Protection includes:
 - Rating: 240V - 50Hz
 - Total Loading: Max 10A 2400W

PB4SW 4 Way Power board with Individual Switches & Surge Protection



NEW

Professional Super-Protection Power Board 8 Way

- The ideal board to protect your Computer and Phone/ADSL connection
- This board has an massive surge protection
 - 3444 Joule protection, using massive ganged MOV's
 - Maximum spike current 144,000A
 - Maximum spike voltage 6KV
 - Full line protection L-N, N-E, L-E
 - Clamping voltage 710V
 - Response time < 1 Nanosecond
- LED displays advise
 - Protection circuit is working
 - Board is correctly earthed, or protection cannot work
- Four of the outlets are widely spaced for power packs
- Noise protection capacitor 0.47µF
- Coax cable line protection (F type connection)
- Phone/ADSL line protection
 - MOV protected 160 Joules
 - Clamping voltage 395V
 - Three RJ12 jacks 1 in 2 out
- Cord length 1.8m

PB80



**HIGH SURGE PROTECTION
3444 JOULES!
144,000 AMPS!**

Green Power & Energy Saving 8 Way Surge Protected Power Manager

Green Power & Energy Saving 8 Way Surge Protected Power Manager

Designed specifically for power conservation, your Green Power Surge Protector will automatically cut off standby power 3 minutes after you've switched off devices. It is also equipped with "always on" outlets for continuous power to certain devices. Additionally, it can be operated using any IR remote, avoiding the clutter and confusion of too many controllers.

Key Features

- "On/Off" switch with Integrated Circuit Breaker
- Use your own remote controller to operate the Power Manager
- Always On or High Current Outlets
- Grounded Outlets
- Surge Protection LED
- 2 Pairs DSS/Coax Connector for Surge Protection (PAL/Aerial Type)
- 1 Pair PAL to F type adaptors
- Power Consumption Display
- IR (Infrared) receiver
- External IR Remote Control Connector
- Combo Phone (RJ11) and Network (RJ45) Jacks
- 60° Rotating Cord With Strain Relief

GP8ESSP

Green Power 8 Way Energy Saving Surge Protector Board White

GP8ESSPBK

Green Power 8 Way Energy Saving Surge Protector Board Black

RJ11 &
RJ45 COMBO
1-IN / 1-OUT

INCLUDES
TELEPHONE
CABLE – 6FT
LONG

1 PAIR
PAL TO F TYPE
ADAPTORS

GREEN
POWER
UNDER
0.8W



GP8ESSP

NEW



GP8ESSPBK



REAR VIEW

Specification		GP8ESSP/GP8ESSPBK
Surge Protected Indicator		Red
Power ON Indicator		Red
IR Indicator		Blue
Surge Protected Failure		Surge circuit shut down & auto power shut down
Package		Colour Box
Electric Rating	Voltage	240 V
	Current	10 A
	Power	2400 Watts
Surge Energy Joule Rating		3672J
Surge Protection Mode		L-N, L-G, N-G
Clamping Voltage		800V
Max. Peak Spike Current		144,000A
Max. Spike Voltage		6KV
EMI/RFI Noise Filter	Frequency	150KHz-100MHz
	Attenuation	Up to 75dB
Tel/Fax/Modem & Network Line Protection	Jack Type	RJ45/RJ11 Combo Jack (1-in/1-out)
	Network	10/100 Base-T (Cat5)
DSS/COAX Cable Protection	Surge Arrestor	Gas Tube
	Breakdown Volts	<75 V
	Insertion Loss	<0.1 dB
	Line Protection	2 pair (Aerial Type)

External Power Supply Cords

3 Pin Plug to IEC Female

- Insulated pins to comply with new Australian Standard

Poly Bag	Sizes
40IEC0.5	0.5m
40IEC2	2m
40IEC5	5m



3 Pin Plug to IEC Female Right Angle

- Insulated pins to comply with the new Australian Standard

Poly Bag	Sizes
3PIECBKRA	2m Black



3 Pin Plug to TWO IEC Female

- Ideal for hooking up a computer and screen with one power plug

Poly Bag	Sizes
3PIECBKYF-1	2m

Bulk Pack - 25 cords in a bundle	
Poly Bag (Bulk)	Sizes
3PIECBKYF	2m bundle of 25



Computer "Y" Power Cord with Surge Protector

- A unique product from CABAC
- Power and protect your computer and screen using a combined power cord and surge protector
- Protector has a 175 Joule energy dissipation rating
- One standard plug connected to two IEC sockets, both protected

SPIECY/B Box



All CABAC power cords are fully compliant with Standard AS/NZS 3112-2000 and all subsequent amendments
OEM Cables - we can supply any type of cable, subject to minimum order quantities

External Power Supply Cords

Computer Screen Cables - IEC Male to IEC Female

Poly Bag	Sizes
40IECMF2	2m
40IECMF5M	5m

Bulk Pack - 25 cords in a bundle

Poly Bag (Bulk)	Sizes
IECMFBK1	1m bundle of 25

Catalogue No.	Pin	Amps	Colour	Length (m)	Variant
Computer Cords - IEC Plug Style					
3PIECBK	3	7.5	Black	2	IEC (F) plug on end
3PIECGY	3	7.5	Grey	2	IEC (F) plug on end
3PIECBKYF-1	3	7.5	Black	2	2 IEC (F) plugs (Splitter)
IECMFBK1	IEC M/F	7.5	Black	1	Computer screen IEC M/F
40IECMF2	IEC M/F	7.5	Black	2	IEC (M) to IEC (F)
40IECMF5M	IEC M/F	7.5	Black	5	IEC (M) to IEC (F)
3PIECBKRA	3	7.5	Black	2	IEC (F) Right Angle

IEC Plug (M)

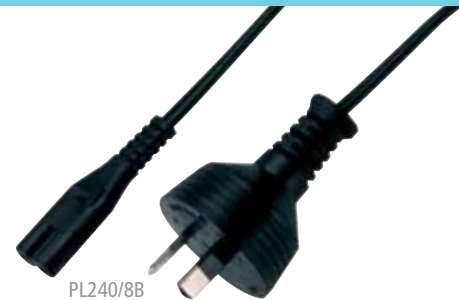
IEC Plug (F)

Laptop Power Cords

- Insulated pins to comply with new Australian Standard

Two pin figure 8 plug on laptop end

Poly Bag	Sizes
PL240/8B	2m
PL240/8B5	5m



PL240/8B

Three Pin Clover-leaf Plug On Laptop End

- Insulated pins to comply with new Australian Standard

Two pin figure 8 plug on laptop end

Poly Bag	Sizes
PL240/CLB5	5m



PL240/CLB

UPS Power Adaptors - IEC Male to 3 Pin Power Socket

- For hooking up an UPS with IEC sockets to normal power plugs
- Not required if you use a CABAC UPS

Blister
40UPSIEC1.5M
40UPSIEC150MM



Extension Cords

- All cords have a **unique LED** in centre of socket to show if cord is live
- Heavy and industrial duty cords have clear plugs and sockets for added safety
- Insulated pins that conform to Aust Standard AS/NZS 3112:2000

Household and Office Extension Leads, 240V, 10A, White

ELD2	2m
ELD4	4m
ELD6	6m
ELD8	8m
ELD10	10m
ELD15	15m
ELD20	20m



ELD1P - ELD10P



ELD2 - ELD20

Household and Office Extension Leads with Piggy Back Plug, 240V, 10A, Black

ELD1P	1m
ELD2P	2m
ELD4P	4m
ELD6P	6m
ELD10P	10m



ELD20 - ELID35



ELH10 - ELH25

Heavy Duty Extension Leads, Yellow, 240V, 10A with See-Through Plug and Socket

ELH10	10m
ELH15	15m
ELH20	20m
ELH25	25m

Industrial Duty Extension Leads, Orange, 15A Lead, with 10A See-Through Plug and Socket

ELID20	20m
ELID30	30m
ELID35	35m



ELID15A10 - ELID15A15

