

# POWER +

## Parallel Redundant UPS System Modular and Upgradeable- 10kVA to 100kVA

- **Can Be Expanded**  
Increased reliability, and protection is provided by passive redundancy
- **System can be Expanded**  
As demand for load increases add more UPS 10 kVA modules
- **Truly Uninterruptible Power**  
Load constantly supplied from battery regardless of input power conditions
- **Clean Environment**  
System operates on continuous current mode (CCM) reducing line interference (RFI/EMI)
- **Power Controller**  
- with internal communications card for management by Ethernet software
- **Savings on Electricity Usage**  
Output efficiency of 96% means lower cost and lower heat dissipation
- **Comprehensive Warranties**  
Full 2 year replacement warranty on UPS and 2 years on batteries
- **Space Saver**  
Its' revolutionary design with small footprint saves space. Even when you upgrade you stack upwards, not sideways

The **POWER +** is a parallel redundant UPS comprising from 1 to 10 UPS modules each of 10KVA, a system controller, centralized static switch module and distribution block. It can be configured as a 3/3, 3/1 or a 1/1 system.

The **POWER +** gives you maximum flexibility - it can be extended as the load increases, by simply sliding in more modules.

### Superior Protection . . .

. . .State of the art design

The **POWER +** is truly modular - upgradeable from 1 to 10 modules, each of 10kVA, allowing you to assemble a UPS system of up to 100kVA

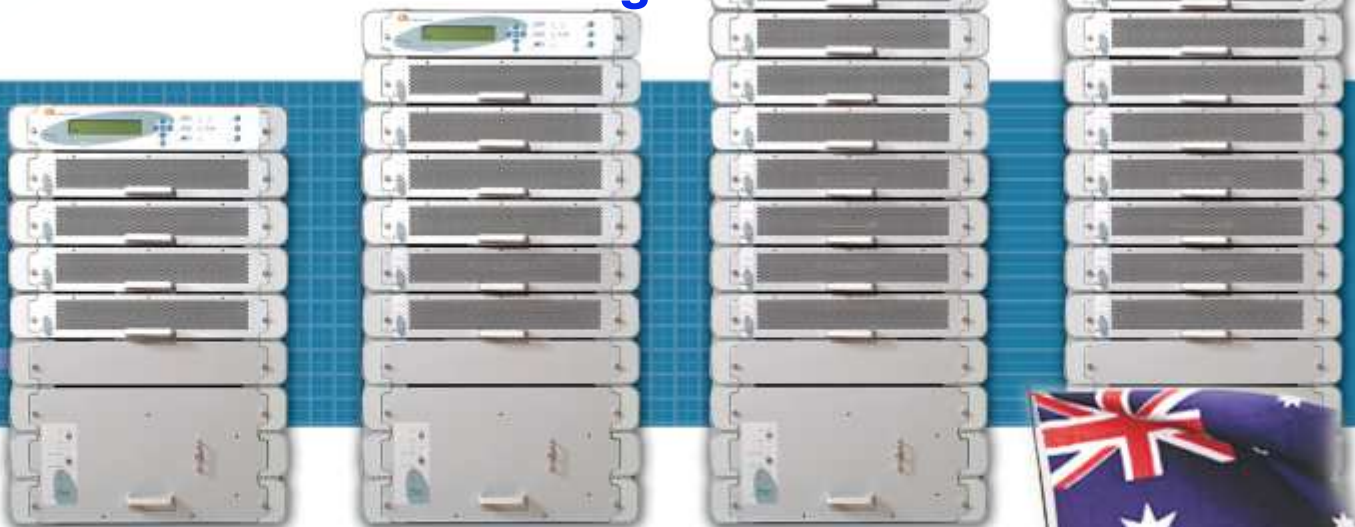
The **POWER +** is designed according to IEC- 62040-3 standard: "The Inverter always supplies the power to the load and it takes its power from either the a.c. input via the rectifier or from the battery. The rectifier has to be controlled so as to recharge and maintain the battery in a charged condition". In other words, the battery is connected between inverter output and rectifier input on common DC link.

The **POWER +** is based on green power technology. The system has a unity input power factor (0.99) and a very low input THD. It operates in Continuous Current Mode (CCM), reducing line interferences (RFI / EMI). In short - clean environment!

The **POWER +** system has active current sharing at the input / output and battery. In short - higher reliability!

The **POWER +** has an output efficiency of up to 96%, and 98% efficiency during back up mode. In short - savings on electricity!

Light & Compact Only 9Kg per UPS module! The **POWER +** light weight and small dimensions allow for easy maintenance, reduced shipping costs and smaller foot print.



**POWER FOR THE  
NON-STOP WORLD**

[www.upsonic.com.au](http://www.upsonic.com.au)  
Phone 1800 634 307

**Specifications**

<b>Model</b>	<b>POWER+</b>	<b>10 - 100 kVA</b>									
<b>Input</b>	Voltage	220 Volts (3 x 400V + N /220/230 Volts single phase)									
	Voltage Range	- 27% and + 20%									
	Frequency	47 Hz / 63 Hz									
	Power Factor	0.99									
	THDI	5%									
<b>Output</b>	Rated Power	10kVA / 8kW - 100kVA / 80 kW									
	Voltage	3 x 415V + N /220/230/240 +/- 1%									
	Frequency	50/60 (selectable)									
	Overload	110% for 10min.; 125% for 60 sec.; 1000% for 1 cycle									
	Waveform	Sinusoidal									
	THD	Less than 2% for linear load									
	Static Regulation	+/- 1%									
	AC-AC Efficiency	Up to 96% (nominal)									
	DC-AC Efficiency	Up to 98% (nominal)									
<b>Battery</b>	DC Link Voltage	+/- 340 V to +/- 425 V									
	No of Batteries	64 x 12V									
<b>Acoustic Noise</b>	At 1.5 metre dba half load	48	52	53	54	55	55.8	56.4	57	57.5	58
	At 1.5 metre dba full load	51	54	55	57	58	58.8	59.4	60	60.5	61
<b>Dimensions (cm)</b>	Power + System	10 kVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	70 kVA	80 kVA	90 kVA	100 kVA
	H x 59.8 Wide x67.3 Deep	71	80	90	99	108	118	127	136	146	155
	Weight (Kg)	84	99	114	129	144	159	174	189	204	219
	10kVA Module	88mm - 2 Rack Units High x 483mm (19") Wide x 455mm Deep Weight of 10kVA Module 9Kg									
<b>Standards Protection</b>	EMC Emmission	EN 50091-2 Class A ; IEC 62040-2									
	EMC Immunity	EN 50082 - 2									
	Safety / Design	Safety E50091-1 ; IEC62040-1-1 / Design EN40091-3 ; IEC62040-3									
<b>Environment</b>	Maximum Power Dissipation	333W (1136 BTU) for a single Module									
	Temperature	- 10° C to +40° C (operating) and -20° C to + 60° C (storage)									
	Humidity	0-95% Non-condensing									
	Enclosure	IP 20									
	Cooling	Forced - Multi-Fan with speed control									

**Power+ Controller**

The Power+ sophisticated controller includes a unique true power analyzer, yet it does not become a "single point of failure". Allows a variety of communications options such as TCP/IP, and wireless cellular communication.



**Power+ Management Application**

Power+ controller has an internal communication card -GMAcI - and can be managed by Ethernet software. Power + management software enables monitoring and controlling of the Power+ as well as automatic computer shutdown. The user friendly GUI provides real time monitoring which permits detailed operational power.

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