

Oracle Series 170W Power Supply & Battery Charger



- ☑ 230V/120V, AC DC Switch Mode PSU.
- ✓ Operable in Mains-Free Standby Mode.
- Main Output 6A(24V), 12A(12V)
- Battery Charger Output 2A(24V), 4A(12V)
- Panel or Din Rail Mounting Options.
- **PCB** Conformal Coating Available.
- ✓ Overload & Short Circuit Protection.
- ✓ Current Limit & Polarity Protection.
- Overvoltage Protection.
 (Main equipment and battery).
- ✓ Undervoltage Lockout Protection.
- CE Compliant.
- EN50081-2 Compliant.
- EN50082-2 Compliant.

General Features

Customer Inspired Design:

Building to satisfy demand, we've added a new 12volt model to partner our existing 24volt units.

With seperate load and battery charging outputs, all models in the range are ideal for critical battery backed applications such as *Fire Panels, Security Systems,* and *Process Control Equipment*, in fact anywhere that your systems must function when the AC supply fails.

Simple, Reliable, Effective:

Identical in every way but voltage, the units are built for panel mounting and feature the option for fitting a Din Rail Mounting Kit.

Connections are made using screw-down terminals and 'Molex' Pin Headers. User accessible fuse protection is included as are high visibility status and alarm indicators.

Built in electronic protection automatically prevents deep discharge of backup batteries whilst temperature sensing and float charging ensures that cells are always at peak capacity.

As an added feature, an external TTL signal can reroute charging power to supply the main output during periods of intense use when greater load currents may be required.

As with all VxI Power's products, custom specifications can be engineered upon request.

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DC Output Voltages	12V Unit	24V Unit		
V01 Main O/P V02 Battery Charge O/P @ 20°C 5mA float current. Temp compensated float voltage.	14.4V +/- 50mV@10A 13.7V -/+ 100mV	28.7V+/- 100mV@4A 27.3V +/- 200mV	EMC Susceptibility	EN50081-1 Emissions EN50082-2 Immunity EN61000-4-2 ESD EN61000-4-3 Radiated Electromagnetic Interference EN61000-4-4 Fast Bursts
DC Output Current V01 V02	10A Nom, 12A Pk 4A	4A Nom, 6A Pk 2A		EN61000-4-5 Voltage Transients - Slow High energy
Line Regulation Full Load) Load regulation	<0.5% Max	<0.5% Max	Environmental Ambient Operating Temp De-rating @ 2.5% per °C Storage Temperature	-20°C to +50°C (No De-rating) +50°C to 70°C ambient -30°C to +85°C
/01 /02 Dutput Ripple and Noise Noise/Ripple	50mV Max 1.5V Typical	50mV Max 1.5V Typical	Connectors Input Output	Screw terminals Screw terminals
beak-peak all outputs:	<75mV	<150mV	Signals	Molex
Standby Operation Overload Protection V01	12A Max 120-150% Max output	6A Max 120-150% Max output	Input Voltage Input Frequency Input Current	120V/230V AC RMS Nom (Link selectable) 47 - 63Hz 2.9A rms typ @ 110V 1.6A rms typ @ 230V
V02 Overvoltage Protection V01 Voltages exceeding V02 Voltages exceeding	4A +/- 200mA dc 16.7V 16V	2A +/- 200mA dc 32V 30V	Input Fusing	PCB Mounted fuse T4A, 250V AC HRC UL/CSA Approved - non-user replaceable.
Volt free relay contacts/LEDs Power OK Signal Charger fault Battery Overdischarge Battery Low Alarm Input Voltage Fault Battery Fault	LED and TTL compatibles any of the following alarm Loss of charge current/ba Uses Internal Relay. 10V +/- 250mV 13.1-15.75V 9V	ns activated.	Inrush Current	Max limited to <30A peak Cold start 20°C ambient - 265V AC
			Efficiency	>75% under all loads line and environmental conditions
			Battery Input Battery Fusing	Protected by reverse parallel diode & fuse T10A
				14613-000 Din Rail Kit
	 -		230.00	+
External Connections		.00	218.00	
External Connections Pin1 Live Pin2 Neutral Pin3 NC Pin4 Earth Pin5 Earth Pin4 V02 Battery +ve Pin3 V02 Battery -ve Pin3 V01 Main +ve O/P Pin4 V01 Main +ve O/P Pin5 Ov Pin6 Ov Pin7 Thermistor Pin8 Thermistor Pin9 Power OK TTI Alarm Pin10 Battery Defeat Pin11 Battery Defeat Pin12 Ext Charge Disable			218.00	PIN 1 DUTPUT CONNECTOR - PL2
PL1 Pin 1 Live Pin 2 Neutral Pin 3 NC Pin 4 Earth Pin 5 Earth Pl12 V02 Battery +ve Pin 1 V02 Battery -ve Pin 2 V02 Battery -ve Pin 3 V01 Main +ve O/P Pin 4 V01 Main +ve O/P Pin 5 Ov Pin 6 Ov Pin 7 Thermistor Pin 8 Thermistor Pin 9 Power OK TTI Alarm Pin 10 Battery Defeat Pin 110 Battery Defeat	00000000000000000000000000000000000000		218.00	