

CP Power & Automation Ltd

Oracle 500P-28 **560W Power Supply & Battery Charger**



- ☑ Universal Input, Power Factor Corrected, AC-DC Switch Mode PSU.
- ☑ Operable in Mains-Free Standby Mode.
- ☑ Boost & Cyclic Charge Modes.

- ☑ Main Output - 20A @ 28V Nom.
- ☑ Battery Charger Output - 10A @ 27V Nom.
- ☑ Auxiliary Output - 2A @ 12V Nom.

- ☑ Configurable Performance via RS232 Interface.
- ☑ Temperature Compensated Charge Cycles.

- ☑ Overload & Thermal Protection.
- ☑ Charge & Over Discharge - Battery Protection.

- ☑ EN60950 & CE Compliant.
- ☑ EN50081-2 & EN50082-2 Compliant.

General Features

Built on Success:

The Oracle 560W PSU is designed for critical locations where you can't afford downtime. Its fully configurable interface links to industry standard PC software and hardware, just set it up and walk away. Using existing communications equipment the whole assembly, including auxiliary equipment and back-up batteries, can be remotely monitored giving you peace of mind and a source of valuable data on the continuity of your service. The unit will run test procedures automatically or upon a manual request.

Easy Installation:

A small footprint and a low mass brings the advantages of flexible mounting options. The unit's built-in, intelligent cooling abilities enhance this further by enabling mounting in less than favourable locations. Connecting the PSU couldn't be simpler. A standard IEC cable feed from the mains, while inexpensive Phoenix and Klippon - BLC connectors provide for other equipment. Interface connections are made using the universal RS232 standard. Other connections options may be made available upon request.

Robust Design:

Efficient self-cooling coupled to 'Engineered' electronic and mechanical protection provides for a supremely robust system capable of consistent high-powered running at optimum efficiency, whilst still maintaining high levels of serviceability.

As with all our products, custom specifications can be engineered upon request.

DC Output Voltages V01 V02 V03	28V max 22.8V min (Dependant on battery charge voltage) Battery voltage 1.3V max when running from standby battery 27.4V +/- 0.2V at 20°C 5mA Float current. Temperature compensated float voltage 12V +/- 0.2V
DC Output Current V01 V02 V03	20A max when battery charge not required Up to 10A max (Software selectable) 2A max continuous
Line Regulation (Full load) Load Regulation V01 V02 V03 Output Ripple & Noise PSU load = 560w, nominal input 240V rms Ripple-Mains & Switching	0.5% max all outputs 300mV max over the range 0 - 10A N/A 150mV max over the range 0 - 2A 150mV Ripple 300mV pk-pk noise (0 - 30 MHz)
Input Voltage Input Frequency Input Current Inrush Current (Hot/Cold start) Fusing PSU Fusing Battery Efficiency at 560W Output	90 to 264V rms 45 to 66Hz 9A rms max at 90V 3.2A rms max at 240V <10A Peak at 240V rms 10A, 250V AC HRC Fuse 20A, 250V F HRC Fuse >75% min at 110 - 264V Input (20 to 25°C ambient) 70% min at 90V

EMC Safety Mean Time to Failure	EN50081-2 Emissions EN50082-2 Immunity/Susceptibility Meets EN60950 Not less than 45,000 Hours in the specified environment.
Environmental Ambient Operating Temp Storage Temperature Humidity Vibration	-10 to +50°C -20 to +85°C 5 - 95% non-condensing 0.5g at 10-50 Hz on each axis
Earthing PSU Negative Earth Battery Positive Earth Battery Test Test Limits Load at test	Negative earth Negative earth Unit can operate in a +ve earth environment but only one source must be earthed. Either the PSU or the Battery can be +ve earthed but NEVER both simultaneously. Can be set to automatic or manual via RS232 port Configured via serial port. Dependant upon battery capacity Fixed at 2.1A
Communication Baud Rate Data Bits Parity Stop bit Protocols	RS232/485 Data Port Available 9600 baud (internally set) 8 Odd 1 1. Terminal Communications Mode 2. MODBUS A full Data Port specification is available on request
Connectors Mains Input System V01 Battery V02 Thermistor Bat Low / Mains Fail Serial Aux V03	3 pin IEC Phoenix, PC4/2-ST-7,62 max Ø 4mm ² Phoenix, PC4/2-ST-7,62 max Ø 4mm ² Klippon BL3.5/2 max Ø 1.5 mm ² Klippon BL3.5/6 max Ø 1.5 mm ² 9 way Male D RS232 Klippon BL5.08/2 max Ø 1.5 mm ²

Model Number: 14653-000

