

CP Power & Automation Ltd

Oracle Series 75W Power Supply & Battery Charger



Features

- Designed to meet EN54-4
- Universal Input, AC - DC Switch Mode PSU.
- Operable in Mains-Free Standby Mode.
- 12 or 24v Models.
- Din Rail or Panel Mounting.
- Volt free relays/signals.
- Battery and load protection

Options

- Regulated main output
- Auxillary outputs
- Dual path fusing
- Choice of connectors

Standards

- EN54-4 Compliant.
- CE & EMC Compliant.
- EN60950 Compliant.

General Features.

Built on Success:

The latest models in the growing range of Oracle Power Supplies build on the advances of other units in the successful Oracle range.

Intelligent Design:

Designed specifically for applications within the Fire Protection, Telemetry and Control industries, the 75W unit represents a high level of functionality tailored to the requirements of these users.

Conceived as a multi application platform, the unit is designed to meet EN54-4, and offers options normally only found on larger units, such as auxillary outputs.

Signal outputs are provided as standard, the factory default volt free relays being EN54-4 compliant. Other configurations are available - consult the factory for details.

Our standard protection circuitry safeguards your equipment, and batteries during normal and fault conditions. Close control of the charge/discharge allows the maximum life to be obtained from your batteries.

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

	12V UNIT	24V UNIT
DC Output Voltages V01 Main O/P (standard)	14.3V +/- 50mV <small>Tracks battery voltage on standby</small>	28.6V +/- 100mV <small>Tracks battery voltage on standby</small>
V02 Battery Charge O/P	13.7V +/- 100mV <small>Temperature compensated</small>	27.4V +/- 200mV <small>Temperature compensated</small>
DC Output Current Shared across V01 & V02 <small>*Total available output is 75W, main output current will be reduced where an auxillary output is fitted</small>	5A*Total	2.5A* Total
Line Regulation (full load) Load regulation V01 (over range 10-100%) V02 (over range 10-100%)	<0.5% 50mV Max 1.5V Typical	<0.5% 50mV Max 1.5V Typical
Output Ripple and Noise PSU loaded to 60W @ 230Vrms over a bandwidth of 0 - 30MHz Noise/Ripple (peak-peak all outputs)	<100mV	<100mV
Standby Operation	5A Nom.	2.5A Nom.
Overload Protection V01 (Primary power limit) V02 (Constant current limit)	120-150% Max Up to 1A (Factory Set)	120%-150% Max Up to 1A (Factory Set)
Battery Input Battery Fusing	Inherent reverse protection T6A	Inherent reverse protection T4A
Over voltage Protection V01 Voltages exceeding V02 Voltages exceeding	16V 16V	32V 32V
Volt free relays/signals/LEDs IO1 BATTERY LOW IO2 SYSTEM FAULT LED1 CHARGER FAULT LED2 BATTERY LOW LED3 STANDBY SUPPLY FAULT LED4 MAIN SUPPLY FAULT FAULT1 TTL SYSTEM FAULT FAULT2 TTL SYSTEM FAULT (INVERTED) <small>Other configurations are available-consult factory for details</small>		
Conditions for active signals: Battery low <input checked="" type="checkbox"/> IO1 Battery reversed <input checked="" type="checkbox"/> IO2 Battery disconnected <input checked="" type="checkbox"/> IO1 AC mains failure <input checked="" type="checkbox"/> LED4 Charger failure <input checked="" type="checkbox"/> LED1		

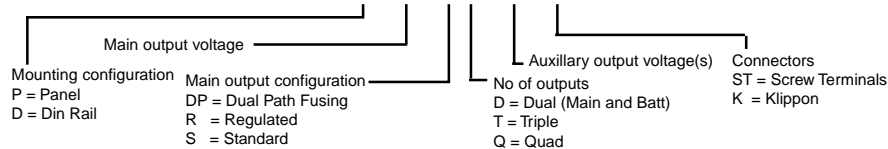
EMC	EN50081-1 Emissions EN50082-2 Immunity EN61000-4-2 ESD EN61000-4-3 Radiated Electro Interference EN61000-4-4 Fast Bursts
Susceptibility	
Environmental Ambient Operating Temp Storage Temperature	-5°C to +40°C derate 2.5% per °C>40°C -30°C to +85°C
Connectors Input/Output/Signal Thermistor	Screw Terminal or Weidmuller Kilppon 0.1" Molex 2 way
Input Voltage Input Frequency Input Current	90V - 260V AC rms 47 - 63Hz 2A rms typ @ 110V 1A rms typ @ 230V T3.15AA, 250V AC HRC
Input Fusing PCB Mounted fuse Inrush Current Efficiency	UL/CSA Approved <30A peak, cold start 20°C ambient - 265V AC 12V UNIT >75% under all conditions 24V UNIT >82% under all conditions

Options	Regulated main output	Auxillary output	Dual Path fusing (split main output)
Spec	12 or 24V	5V, 12-15V, 24V	2 x pcb 2A*fuses
Output current	2.5A/1.7A	5V/3A, 12-15V 2A 24V 1.25A	
Line regulation (full load)	<0.5%	<0.5%	
Load regulation (10-100%)	<0.5%	<0.5%	
Overcurrent protection	120% nom	120% nom	
Overvoltage protection	120% nom	120% nom	
Ripple/noise (Full load, pk-pk)	<1%	<1%	

* consult factory for 12V dual path fusing applications

Ordering information:

ORACLE III 75P-28SD12ST



Dimensions

