



Oracle Series 75w Battery Backed Power Supply

- Universal Input, AC - DC Switch Mode PSU.
- 12 or 24v Models.

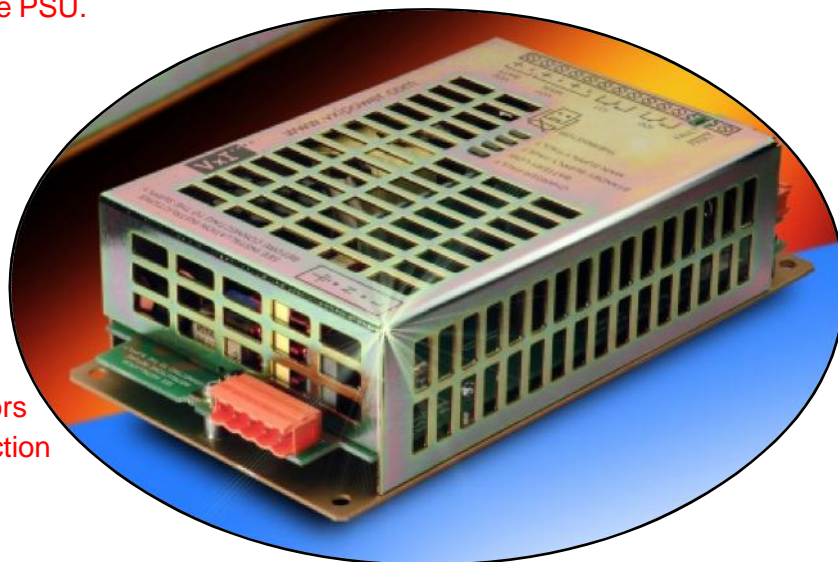
- Din Rail or Panel Mounting.
- Volt free relays/signals.
- Battery and load protection

Options

- Regulated main output
- Auxillary outputs
- Dual path fusing, Choice of connectors
- Battery test, SPI port for local connection

Standards

- 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 offers options normally only found on larger units, such as auxillary outputs, configurable I/O and an SPI port.

Signal outputs and volt free relays are provided as standard. Other configurations are available - consult the factory for details.

Our standard protection circuitry safeguards your equipment, and batteries during normal and fault conditions. Temperature compensated charging and deep discharge protection allow the maximum life to be obtained from your batteries.

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

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www.vxipower.com

	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 auxiliary output is fitted</small>	5A Total	2.8A 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.	2.8A Nom.																								
Overload Protection V01 (Primary power limit) V02 (Constant current limit)	120-150% Max Up to 5A (Factory Set)	120-150% Max Up to 2.8A (Factory Set)																								
Battery Input Battery Fusing	Inherent reverse protection F6A	Inherent reverse protection F4A																								
Over voltage Protection V01 Voltages exceeding V02 Voltages exceeding	16V 16V	32V 32V																								
Volt free relays/signals/LEDs	<p>Conditions for active signals</p> <table border="0"> <tr> <td>IO1 VFR BATTERY LOW</td> <td>IO1</td> <td>LED1</td> </tr> <tr> <td>IO2 VFR SYSTEM FAULT</td> <td>IO2</td> <td>LED2</td> </tr> <tr> <td>IO3 TTL SYSTEM FAULT</td> <td>IO3</td> <td>LED3</td> </tr> <tr> <td>IO4 TTL SYSTEM FAULT (INVERTED)</td> <td>IO4</td> <td>LED4</td> </tr> <tr> <td>LED1 CHARGER FAULT</td> <td>LED1</td> <td>FAULT</td> </tr> <tr> <td>LED2 BATTERY LOW (LED FLASHES WHEN CHARGING)</td> <td>LED2</td> <td></td> </tr> <tr> <td>LED3 STANDBY SUPPLY FAULT</td> <td>LED3</td> <td></td> </tr> <tr> <td>LED4 MAIN SUPPLY FAULT</td> <td>LED4</td> <td></td> </tr> </table> <p> Battery low Battery reversed Battery disconnected AC mains failure Charger failure </p>		IO1 VFR BATTERY LOW	IO1	LED1	IO2 VFR SYSTEM FAULT	IO2	LED2	IO3 TTL SYSTEM FAULT	IO3	LED3	IO4 TTL SYSTEM FAULT (INVERTED)	IO4	LED4	LED1 CHARGER FAULT	LED1	FAULT	LED2 BATTERY LOW (LED FLASHES WHEN CHARGING)	LED2		LED3 STANDBY SUPPLY FAULT	LED3		LED4 MAIN SUPPLY FAULT	LED4	
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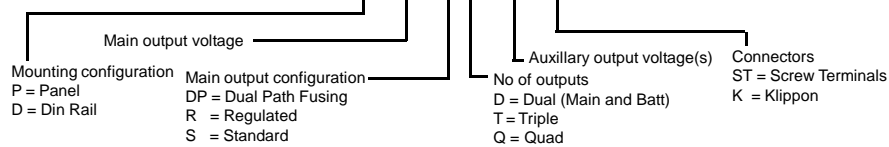
EMC Susceptibility	EN61000-6-3 Emissions EN61000-4-2 ESD EN61000-4-3 Radiated Electro Interference EN61000-4-4 Fast Bursts EN61000-4-5 Surge Immunity Test EN61000-4-6 Radio Frequency Test EN60950-1
Safety	
Environmental	
Ambient Operating Temp	-5°C to +55°C
Storage Temperature	-30°C to +85°C
Connectors	
Input/Output/Signal	Screw Terminal or Weidmuller Klippon
Thermistor	0.1" Molex 2 way
Input Voltage	85V - 264V AC rms
Input Frequency	47 - 63Hz
Input Current	2A rms typ @ 110V 1A rms typ @ 230V
Input Fusing	T3.15A, 250V AC HRC
PCB Mounted fuse	UL/CSA Approved
Inrush Current	<30A peak, cold start 20°C ambient - 265V AC
Efficiency	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 4A*fuses
Output current	2.5A/1.5A**	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%	

Ordering information:

ORACLE III 75P-28SD12ST

* consult factory for 12V dual path fusing applications
 **total output power is reduced by 10% when regulated main output is used



Dimensions

