



# Oracle Series 75w Battery Backed Power Supply

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

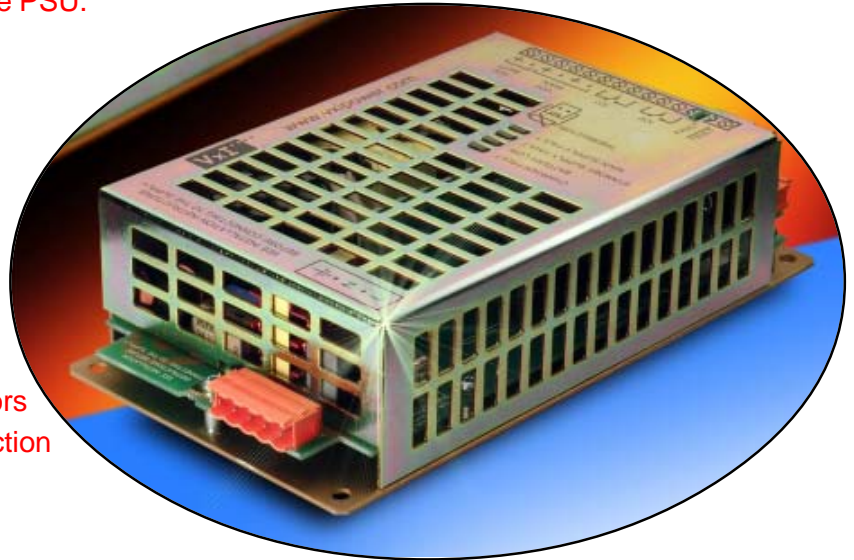
- Din Rail or Panel Mounting.
- Volt free relays/signals.
- Battery and load protection

#### 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 Vxl Power's products, custom specifications can be engineered upon request.

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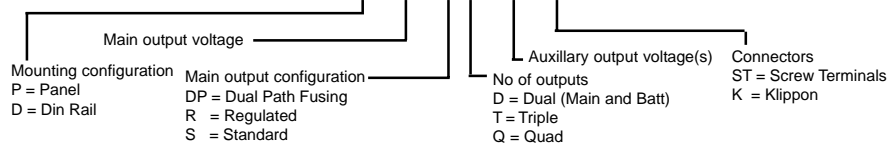
	12V UNIT	24V UNIT																
<b>DC Output Voltages</b> V01 Main O/P (standard)	14.3V +/- 50mV <small>Tracks battery voltage on standby</small>	28.6V +/- 100mV <small>Tracks battery voltage on standby</small>																
V02 Battery Charge O/P	13.7V +/- 100mV <small>Temperature compensated</small>	27.4V +/- 200mV <small>Temperature compensated</small>																
<b>DC Output Current</b> 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																
<b>Line Regulation</b> (full load) <b>Load regulation</b> V01 (over range 10-100%) V02 (over range 10-100%)	<0.5%  50mV Max 1.5V Typical	<0.5%  50mV Max 1.5V Typical																
<b>Output Ripple and Noise</b> PSU loaded to 60W @ 230Vrms over a bandwidth of 0 - 30MHz Noise/Ripple (peak-peak all outputs)	<100mV	<100mV																
<b>Standby Operation</b>	5A Nom.	2.8A Nom.																
<b>Overload Protection</b> V01 (Primary power limit) V02 (Constant current limit)	120-150% Max Up to 5A (Factory Set)	120%-150% Max Up to 2.8 (Factory Set)																
<b>Battery Input</b> <b>Battery Fusing</b>	Inherent reverse protection F6A	Inherent reverse protection F4A																
<b>Over voltage Protection</b> V01 Voltages exceeding V02 Voltages exceeding	16V 16V	32V 32V																
<b>Volt free relays/signals/LEDs</b>	<p>Conditions for active signals:</p> <table border="0"> <tr> <td>IO1 VFR BATTERY LOW</td> <td><input checked="" type="checkbox"/></td> <td>IO2 VFR SYSTEM FAULT</td> <td><input checked="" type="checkbox"/></td> <td>IO3 TTL SYSTEM FAULT</td> <td><input checked="" type="checkbox"/></td> <td>IO4 TTL SYSTEM FAULT (INVERTED)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>LED1 CHARGER FAULT</td> <td><input checked="" type="checkbox"/></td> <td>LED2 BATTERY LOW (LED FLASHES WHEN CHARGING)</td> <td><input checked="" type="checkbox"/></td> <td>LED3 STANDBY SUPPLY FAULT</td> <td><input checked="" type="checkbox"/></td> <td>LED4 MAIN SUPPLY FAULT</td> <td><input checked="" type="checkbox"/></td> </tr> </table> <p> <input checked="" type="checkbox"/> Battery low  <input checked="" type="checkbox"/> Battery reversed  <input checked="" type="checkbox"/> Battery disconnected  <input checked="" type="checkbox"/> AC mains failure  <input checked="" type="checkbox"/> Charger failure </p>		IO1 VFR BATTERY LOW	<input checked="" type="checkbox"/>	IO2 VFR SYSTEM FAULT	<input checked="" type="checkbox"/>	IO3 TTL SYSTEM FAULT	<input checked="" type="checkbox"/>	IO4 TTL SYSTEM FAULT (INVERTED)	<input checked="" type="checkbox"/>	LED1 CHARGER FAULT	<input checked="" type="checkbox"/>	LED2 BATTERY LOW (LED FLASHES WHEN CHARGING)	<input checked="" type="checkbox"/>	LED3 STANDBY SUPPLY FAULT	<input checked="" type="checkbox"/>	LED4 MAIN SUPPLY FAULT	<input checked="" type="checkbox"/>
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<b>EMC Susceptibility</b>	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
<b>Safety Environmental</b>	
<b>Ambient Operating Temp</b>	-5°C to +55°C
<b>Storage Temperature</b>	-30°C to +85°C
<b>Connectors</b>	
<b>Input/Output/Signal Thermistor</b>	Screw Terminal or Weidmuller Kilppon 0.1" Molex 2 way
<b>Input Voltage</b>	85V - 264V AC rms
<b>Input Frequency</b>	47 - 63Hz
<b>Input Current</b>	2A rms typ @ 110V 1A rms typ @ 230V
<b>Input Fusing</b>	T3.15AA, 250V AC HRC
<b>PCB Mounted fuse</b>	UL/CSA Approved
<b>Inrush Current</b>	<30A peak, cold start 20°C ambient - 265V AC
<b>Efficiency</b>	12V UNIT >75% under all conditions 24V UNIT >82% under all conditions

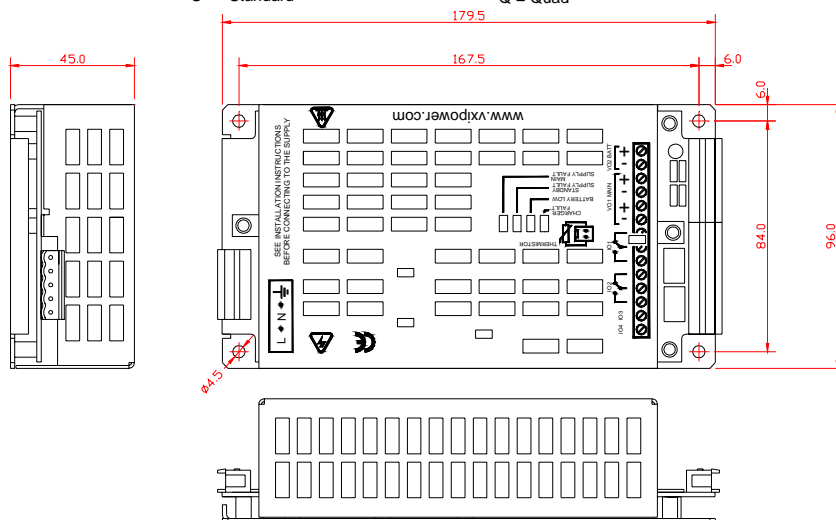
Options	Regulated main output	Auxiliary output	Dual Path fusing (split main output)
<b>Spec</b>	12 or 24V	5V, 12-15V, 24V	2 x pcb 4A*fuses
<b>Output current</b>	2.5A/1.5A**	5V/3A, 12-15V 2A 24V 1.25A	
<b>Line regulation (full load)</b>	<0.5%	<0.5%	
<b>Load regulation (10-100%)</b>	<0.5%	<0.5%	
<b>Overcurrent protection</b>	120% nom	120% nom	
<b>Overvoltage protection</b>	120% nom	120% nom	
<b>Ripple/noise (Full load, pk-pk)</b>	<1%	<1%	

**Ordering information:**

**ORACLE III 75P-28SD12ST**



**Dimensions**



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