



# VxI POWER LIMITED

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

	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 auxillary output is fitted</small>	5A*Total	2.5A* 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.	2.5A Nom.
<b>Overload Protection</b> V01 (Primary power limit) V02 (Constant current limit)	120-150% Max Up to 1A (Factory Set)	120%-150% Max Up to 1A (Factory Set)
<b>Battery Input</b> <b>Battery Fusing</b>	Inherent reverse protection T6A	Inherent reverse protection T4A
<b>Over voltage Protection</b> V01 Voltages exceeding V02 Voltages exceeding	16V 16V	32V 32V
<b>Volt free relays/signals/LEDs</b> 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>		
<b>Conditions for active signals:</b> 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		

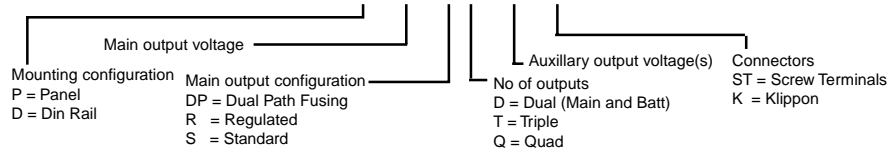
<b>EMC</b>	EN50081-1 Emissions EN50082-2 Immunity EN61000-4-2 ESD EN61000-4-3 Radiated Electro Interference EN61000-4-4 Fast Bursts
<b>Susceptibility</b>	
<b>Environmental</b> Ambient Operating Temp Storage Temperature	-5°C to +40°C derate 2.5% per °C>40°C -30°C to +85°C
<b>Connectors</b> Input/Output/Signal Thermistor	Screw Terminal or Weidmuller Kilppon 0.1" Molex 2 way
<b>Input Voltage</b> <b>Input Frequency</b> <b>Input Current</b>	90V - 260V AC rms 47 - 63Hz 2A rms typ @ 110V 1A rms typ @ 230V
<b>Input Fusing</b> PCB Mounted fuse <b>Inrush Current</b> <b>Efficiency</b>	T3.15AA, 250V AC HRC 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)
<b>Spec</b>	12 or 24V	5V, 12-15V, 24V	2 x pcb 2A*fuses
<b>Output current</b>	2.5A/1.7A	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%	

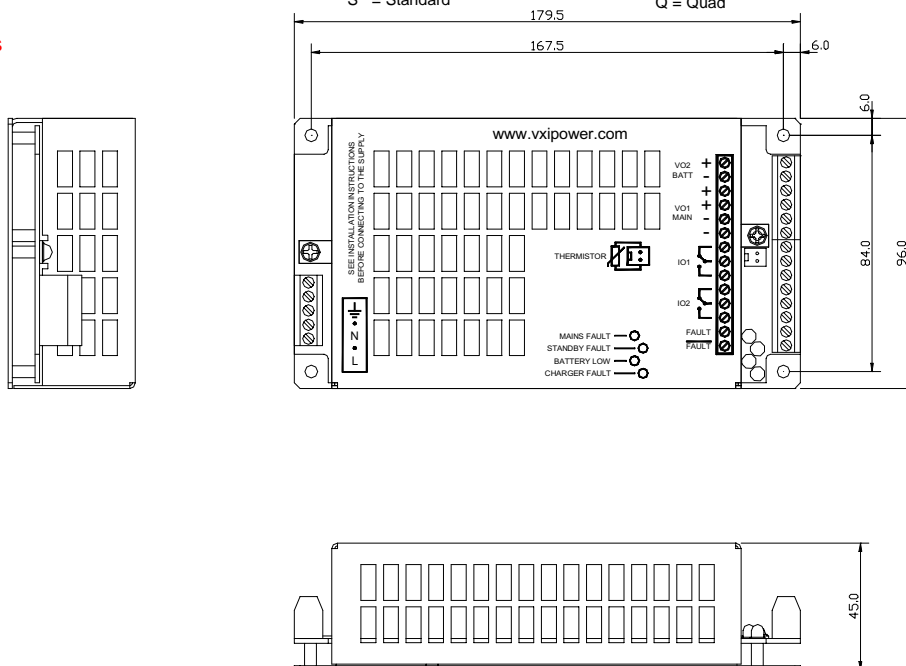
\* consult factory for 12V dual path fusing applications

### Ordering information:

## ORACLE III 75P-28SD12ST



### Dimensions



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