



# 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.

[www.vxipower.com](http://www.vxipower.com)

	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	2.5A* 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>	<p>Conditions for active signals</p> <table border="0"> <tr> <td>I01</td><td>BATTERY LOW</td><td>I01</td><td>Battery low</td><td>LED 1</td><td>LED 1</td></tr> <tr> <td>I02</td><td>SYSTEM FAULT</td><td>I02</td><td>Battery reversed</td><td>LED 2</td><td>LED 2</td></tr> <tr> <td>LED1</td><td>CHARGER FAULT</td><td>I03</td><td>Battery disconnected</td><td>LED 3</td><td>LED 3</td></tr> <tr> <td>LED2</td><td>BATTERY LOW</td><td>I04</td><td>AC mains failure</td><td>LED 4</td><td>LED 4</td></tr> <tr> <td>LED3</td><td>STANDBY SUPPLY FAULT</td><td>I05</td><td>Charger failure</td><td>LED 5</td><td>LED 5</td></tr> <tr> <td>LED4</td><td>MAIN SUPPLY FAULT</td><td></td><td></td><td>LED 6</td><td>LED 6</td></tr> <tr> <td>FAULT1</td><td>TTL SYSTEM FAULT</td><td></td><td></td><td>LED 7</td><td>LED 7</td></tr> <tr> <td>FAULT2</td><td>TTL SYSTEM FAULT (INVERTED)</td><td></td><td></td><td>LED 8</td><td>LED 8</td></tr> </table> <p><small>Other configurations are available-consult factory for details</small></p>		I01	BATTERY LOW	I01	Battery low	LED 1	LED 1	I02	SYSTEM FAULT	I02	Battery reversed	LED 2	LED 2	LED1	CHARGER FAULT	I03	Battery disconnected	LED 3	LED 3	LED2	BATTERY LOW	I04	AC mains failure	LED 4	LED 4	LED3	STANDBY SUPPLY FAULT	I05	Charger failure	LED 5	LED 5	LED4	MAIN SUPPLY FAULT			LED 6	LED 6	FAULT1	TTL SYSTEM FAULT			LED 7	LED 7	FAULT2	TTL SYSTEM FAULT (INVERTED)			LED 8	LED 8
I01	BATTERY LOW	I01	Battery low	LED 1	LED 1																																													
I02	SYSTEM FAULT	I02	Battery reversed	LED 2	LED 2																																													
LED1	CHARGER FAULT	I03	Battery disconnected	LED 3	LED 3																																													
LED2	BATTERY LOW	I04	AC mains failure	LED 4	LED 4																																													
LED3	STANDBY SUPPLY FAULT	I05	Charger failure	LED 5	LED 5																																													
LED4	MAIN SUPPLY FAULT			LED 6	LED 6																																													
FAULT1	TTL SYSTEM FAULT			LED 7	LED 7																																													
FAULT2	TTL SYSTEM FAULT (INVERTED)			LED 8	LED 8																																													

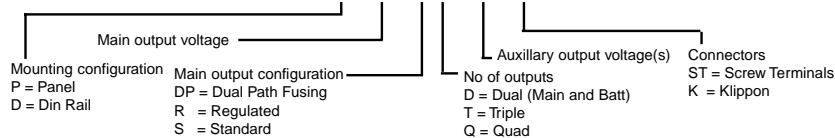
<b>EMC</b>	EN50081-1 Emissions EN50082-2 Immunity EN61000-4-2 ESD EN61000-4-3 Radiated Electro Interference EN61000-4-4 Fast Bursts
<b>Susceptibility</b>	
<b>Environmental</b> Ambient Operating Temp Storage Temperature	-5°C to +40°C derate 2.5% per °C>40°C -30°C to +85°C
<b>Connectors</b> Input/Output/Signal 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> <b>PCB Mounted fuse</b> <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%	

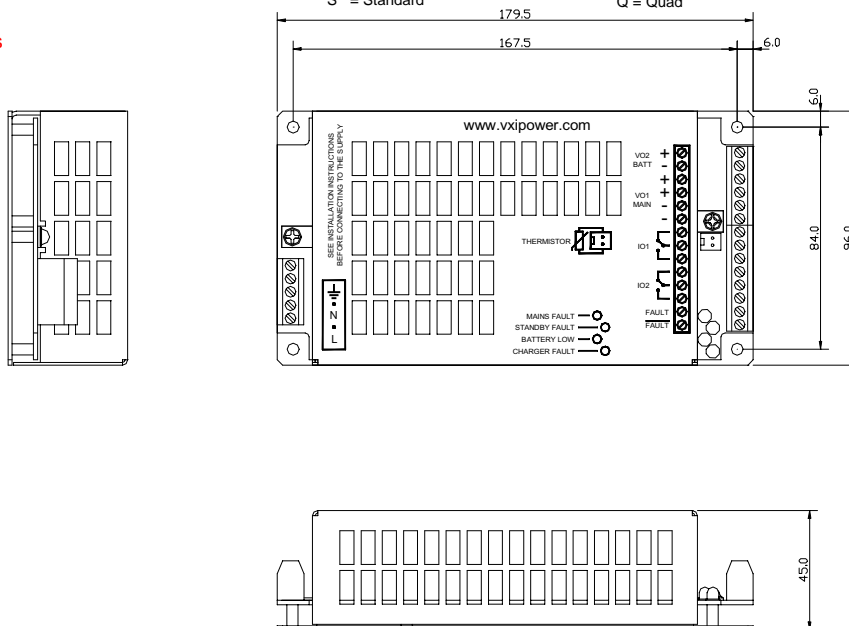
\* consult factory for 12V dual path fusing applications

### Ordering information:

## ORACLE III 75P-28SD12ST



### Dimensions



www.vxipower.com

00030:Rev1