



Oracle Series 130w Battery Backed Power Supply

- AC - DC Switch Mode PSU.
- 115V / 230V Link Selectable.
- 12 or 24v Models.
- Designed to meet EN54-4
- 200W Peak Capability

- 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

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



General Features.

The Oracle II-130W offers a higher power output option to the 75watt unit and shares many features of its EN54-4 compatible sibling.

Designed specifically for applications within the Fire Protection, Telemetry and Control industries, the 130W unit represents a high level of functionality tailored to the requirements of these users.

As with the 75W, features such as such as auxillary outputs, configurable I/O and an SPI port are available.

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. 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												
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 @ 20°C	13.7V +/- 100mV <small>Temperature compensated</small>	27.4V +/- 200mV <small>Temperature compensated</small>												
DC Output Current V01 V02 <small>Max output not to exceed 130W</small>	10A 4A	5A 2A												
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	10A Nom.	5A Nom.												
Overload Protection V01 (Primary power limit) V02 (Constant current limit)	120-150% Max Up to 4A (Factory Set)	120%-150% Max Up to 2A (Factory Set)												
Battery Input Battery Fusing	Inherent reverse protection NON USER REPLACEABLE	Inherent reverse protection NON USER REPLACEABLE												
Over voltage Protection V01 Voltages exceeding V02 Voltages exceeding	16V 16V	32V 32V												
Volt free relays/signals/LEDs	<table border="0"> <tr> <td>I01 VFR BATTERY LOW</td> <td rowspan="10"> Conditions for active signals </td> </tr> <tr> <td>I02 VFR SYSTEM FAULT</td> </tr> <tr> <td>I03 TTL UVLO (OPEN COLLECTOR)</td> </tr> <tr> <td>I04 TTL GENERAL FAULT (OPEN COLLECTOR)</td> </tr> <tr> <td>LED1 CHARGER FAULT</td> </tr> <tr> <td>LED2 BATTERY LOW</td> </tr> <tr> <td>LED3 STANDBY SUPPLY FAULT</td> </tr> <tr> <td>LED4 MAIN SUPPLY FAULT</td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> </table>		I01 VFR BATTERY LOW	Conditions for active signals 	I02 VFR SYSTEM FAULT	I03 TTL UVLO (OPEN COLLECTOR)	I04 TTL GENERAL FAULT (OPEN COLLECTOR)	LED1 CHARGER FAULT	LED2 BATTERY LOW	LED3 STANDBY SUPPLY FAULT	LED4 MAIN SUPPLY FAULT			
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Other configurations are available-consult factory for details

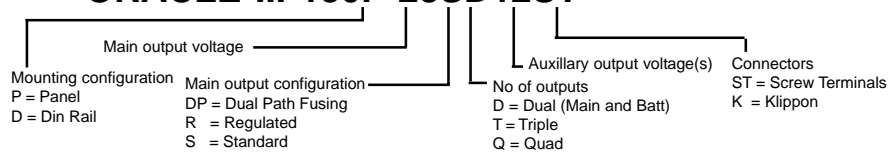
EMC	EN61000-6-2: 2005 Immunity EN61000-6-3: 2001 Emissions EN61000-6-4: 2001 Emissions
Environmental Ambient Operating Temp Storage Temperature	-25°C to +55°C -30°C to +85°C
Connectors Input/Output/Signal Thermistor	Screw Terminal or Weidmuller Kilppon 0.1" Molex 2 way
Input Voltage Input Frequency Input Current	90-132/180-264V AC rms link selectable 47 - 63Hz 2.5 A rms typ @ 110V 1.25 A rms typ @ 230V T4A, 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 4A*fuses
Output current	2.5A/1.5A**	5V/3A, 12-15V 3.5A 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
**total output power is reduced by 10% when regulated main output is used

Ordering information:

ORACLE III 130P-28SD12ST



Dimensions

