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

VxI Power Limited, Westminster Trading Estate,
Station Road, North Hykeham, Lincoln, LN6-3QY, England.
T: +44 (0)1522 500511 F: +44 (0)1522 500515
www.vxipower.com

	12V UNIT	24V UNIT
DC Output Voltages V01 Main O/P (standard)	14.3V +/- 50mV Tracks battery voltage on standby	28.6V+/- 100mV Tracks battery voltage on standby
V02 Battery Charge O/P @ 20ºC	13.7V -/+ 100mV Temperature compensated	27.4V +/- 200mV Temperature compensated
DC Output Current V01 V02 Max output not to exceed 130W	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**	Inherant reverse protection NON USER REPLACEABLE	Inherant reverse protection NON USER REPLACEABLE
Over voltage Protection V01 Voltages exceeding V02 Voltages exceeding	16V 16V	32V 32V

Volt free relays/signals/LEDs

IO1	VFR BATTERY LOW
IO2	VFR SYSTEM FAULT
IO3	TTL UVLO (OPEN COLLECTOR)
IO4	TTL GENERAL FAULT (OPEN COLLECTOR)
LED1	CHARGER FAULT
LED2	BATTERY LOW
LED3	STANDBY SUPPLY FAULT
LED4	MAIN SUPPLY FAULT

Other configurations are available-consult factory for details

Conditions for active signals

	IO1	IO2	LED 1	LED2	LED3	LED4	FAULT
Battery low	☑	☑		☑	☑	☑	☑
Battery reversed	☑	☑			☑	☑	☑
Battery disconnected	☑	☑				☑	☑
AC mains failure	☑	☑	☑		☑	☑	☑
Charger failure	☑						

EMC	EN61000-6-2 : 2005 Immunity EN61000-6-3 : 2001 Emissions EN61000-6-4 : 2001 Emissions
Environmental	
Ambient Operating Temp	**-25ºC to +55ºC**
Storage Temperature	**-30ºC to +85ºC**
Connectors	
Input/Output/Signal	**Screw Terminal or Weidmuller Kilppon**
Thermistor	**0.1" Molex 2 way**
Input Voltage	90-132/180-264V AC rms link selectable
Input Frequency	47 - 63Hz
Input Current	2.5 A rms typ @ 110V 1.25 A rms typ @ 230V
Input Fusing	T4A, 250V AC HRC
PCB Mounted fuse	UL/CSA Approved
Inrush Current	<30A peak, cold start 20ºC 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 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

- Mounting configuration: P = Panel; D = Din Rail
- Main output voltage
- Main output configuration: DP = Dual Path Fusing; R = Regulated; S = Standard
- No of outputs: D = Dual (Main and Batt); T = Triple; Q = Quad
- Auxillary output voltage(s)
- Connectors: ST = Screw Terminals; K = Klippon

Dimensions