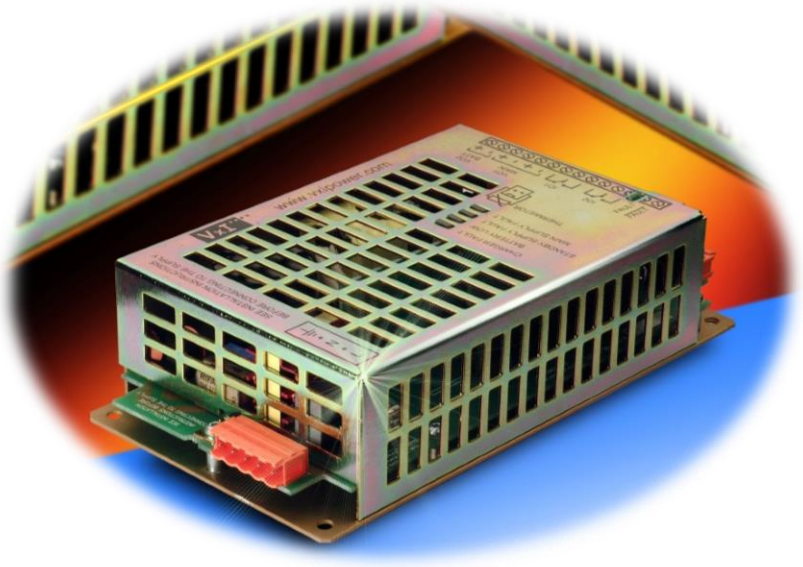
Oracle Series
75w Battery Backed Power Supply

- 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
- Auxiliary outputs
- Dual path fusing, Choice of connectors
- Battery test, SPI port for local connection

Standards
- CE, UKCA & EMC Compliant
- EN62368 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 auxiliary 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 VxI 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) Tracks battery voltage on standby	14.4V +/- 50mV	28.8V+/- 100mV
V02 Battery Charge Output Temperature compensated	13.6V -/+ 100mV	27.2V +/- 200mV
DC Output Current Shared across V01 & V02 Total available output is 75W, main output current will be reduced where an auxiliary output is fitted	4.75A Total	2.8A Total
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	4.75A Nom.	2.8A Nom.
Overload Protection V01 (Primary power limit) V02 (Constant current limit)	120-150% Max Up to 5A (Factory Set)	120-150% Max Up to 5A (Factory Set)
Battery Input **Battery Fusing**	Inherent reverse protection F6.3A	Inherent reverse protection F6.3A
Over voltage Protection V01 Voltages exceeding V02 Voltages exceeding	16V 16V	32V 32V

EMC - Immunity	EN61000-6-2	EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11					
EMC - Emissions	EN61000-6-3	EN55032 Conducted / Radiated					
Safety	EN62368-1						
Environmental							
Ambient Operating Temp	-5°C to +55°C						
Storage Temperature	-30°C to +85°C						
Connectors							
Input/Output	Screw Terminal or Weidmuller Klippon						
Signal Thermistor	0.1" Molex 2 way						
Input Voltage	85V - 264V AC rms						
Input Frequency	47 - 63Hz						
Input Current	1.5Arms typ @ 110V 1.0Arms typ @ 230V						
Input Fusing							
PCB Mounted fuse	T2A, 250V AC HRC - UL/CSA Approved						
Inrush Current	<30A peak, cold start 20°C ambient - 265V AC						
Efficiency	12V UNIT >75% under all conditions 24V UNIT >82% under all conditions						

Options	Regulated Main Output	Auxiliary Output	Dual Path Fusing (split main o/p)
Spec	12 or 24V	5V, 12-15V, 24V	2 x PCB 4A* fuses
Output current	2.5A/1.5A**	5V/3A 12-15V 2A 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**

Volt free relays/signals/LEDs

IO1 VFR BATTERYLOW
IO2 VFR SYSTEM FAULT
IO3 TTL SYSTEM FAULT
IO4 TTL SYSTEM FAULT (INVERTED)
LED1 CHARGER FAULT
LED2 BATTERY LOW
(LED FLASHES WHEN CHARGING)
LED3 STANDBY SUPPLY FAULT
LED4 MAIN SUPPLYFAULT

Other configurations are available-consult factory for details

Conditions for active signals

	IO1	IO2	LED1	LED2	LED3	LED4	FAULT
Battery Low	✓	✓		✓	✓		✓
Battery Reversed		✓			✓		✓
Battery Disconnected		✓					✓
AC Mains Failure		✓	✓				✓
Charger Failure		✓				✓	

Ordering information:

ORACLE III 75P-28SD12ST

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

Dimensions