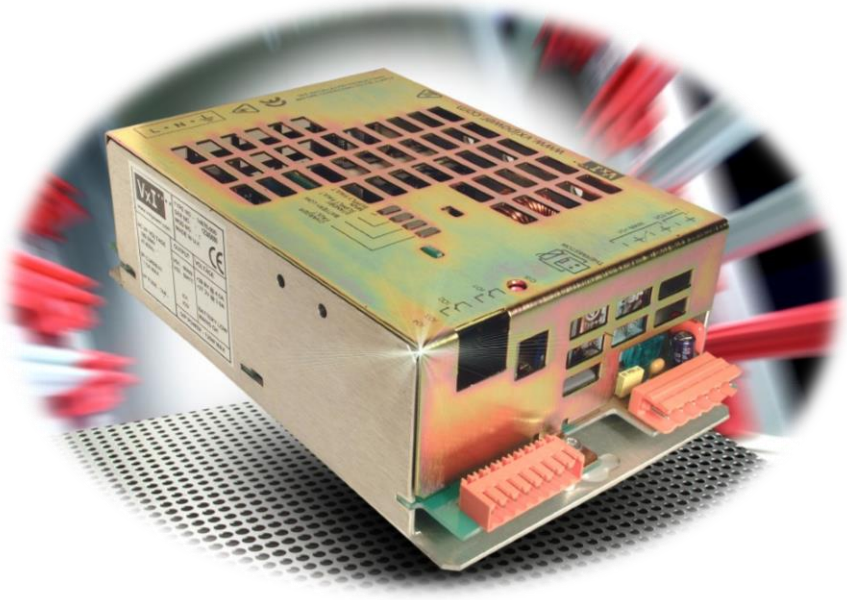
# Oracle Series
# 130w Battery Backed Power Supply

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

- Din Rail or Panel Mounting.
- Volt free relays/signals.
- Battery and load protection

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

Standards
- CE, UKCA & EMC Compliant
- EN62368 Compliant.



## General Features.

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

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 auxiliary outputs, configurable I/O and an SPI port are available.

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**<br>V01 Main O/P (standard)<br>Tracks battery voltage on standby | 14.3V +/- 50mV | 28.6V+/- 100mV |
| V02 Battery Charge Output<br>Temperature compensated | 13.7V -/+ 100mV | 27.4V +/- 200mV |
| **DC Output Current**<br>V01<br>V02<br>Max output not to exceed 130W | 9A<br>3A | 5A<br>2A |
| **Line Regulation**<br>(full load)<br>**Load regulation**<br>V01 (over range 10-100%)<br>V02 (over range 10-100%) | <0.5%<br><br>50mV Max<br>1.5V Typical | <0.5%<br><br>50mV Max<br>1.5V Typical |
| **Output Ripple and Noise**<br>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**<br>V01 (Primary power limit)<br>V02 (Constant current limit) | 120-150% Max<br>Up to 3A (Factory Set) | 120-150% Max<br>Up to 2A (Factory Set) |
| **Battery Input**<br>**Battery Fusing** | Inherent reverse protection<br>NON USER REPLACEABLE | Inherent reverse protection<br>NON USER REPLACEABLE |
| **Over voltage Protection**<br>V01 Voltages exceeding<br>V02 Voltages exceeding | 16V<br>16V | 32V<br>32V |

Volt free relays/signals/LEDs

IO1 VFR BATTERYLOW
IO2 VFR SYSTEM FAULT
IO3 TTL UNASSIGNED, CONSULT FACTORY
IO4 TTL UNASSIGNED, CONSULT FACTORY
LED1 MAIN SUPPLY FAULT
LED2 STANDBY SUPPLY FAULT
LED3 BATTERY LOW
LED4 CHATGER FAULT

*Other configurations are available-consult factory for details*

| | | |
|---|---|---|
| **EMC - Immunity** | EN61000-6-2 | EN61000-4-2<br>EN61000-4-3<br>EN61000-4-4<br>EN61000-4-5<br>EN61000-4-11 |
| **EMC - Emissions** | EN61000-6-3 | EN55032 Conducted / Radiated |
| **Safety** | EN62368-1 | |
| **Environmental** | | |
| Ambient Operating Temp | -25°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** | 90-132/180-264V AC rms link selectable | |
| **Input Frequency** | 47 - 63Hz | |
| **Input Current** | 2.5 Arms typ @ 110V<br>1.25 Arms typ @ 230V | |
| **Input Fusing** | | |
| PCB Mounted fuse | T4A, 250V AC HRC - UL/CSA Approved | |
| **Inrush Current** | <30A peak, cold start 20°C ambient - 265V AC | |
| **Efficiency** | 12V UNIT >75% under all conditions<br>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<br>12-15V 3.5A<br>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-28ST12ST**

- 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