

VxI

Oracle Series 200w Battery Backed Power Supply



- 300W Peak Capability
- Auto-ranging Input, AC - DC Switch Mode PSU.
- 12 or 24v Models.
- Intelligent battery charging.

- Overload & Short Circuit Protection.
- Current Limit & Polarity Protection.
- Overvoltage Protection (Main equipment and battery).
- Undervoltage Lockout Protection.

Options

- Boost & Cyclic Charge Modes.
- Optional Auxiliary Output.
- Optional serial communications.
- Panel Mount, Din Rail (Factory Fit Option).
- PCB Conformal Coating Available

Standards

- CE, UKCA & EMC Compliant
- EN62368 Compliant.

General Features.

The Oracle III 200 provides a flexible platform and is configurable to suit a wide range of applications. The temperature compensated, intelligent adjust battery circuit can be set to a maximum of 5A for a rapid recharge whilst the 'powershift' software can be used to auto reduce the charge level if the current is required for the main load.

Built-in protection circuitry guards against: short circuit overloads, current limits, reverse polarity, over & under voltages, battery disconnection and low battery conditions.

The unit is supplied standard with convection cooling at 200watts and can be fitted with a temperature controlled fan option to extend the operating temperature and the power output to 250watts continuous. Over temperature conditions are controlled by reducing the battery charge current automatically at high temperatures.

Status Monitoring:

LEDs are provided for local monitoring of system status, along with the options of RS232/RS485, Canbus and Devicenet communications.

The serial port is designed to connect directly to other hardware for incorporation into a SCADA System or can be used to download data to a pc or similar device.

LEDs and fault relays can be mapped to a number of fault and status conditions.

As with all Vxl Power's products, custom specifications can be engineered upon request.



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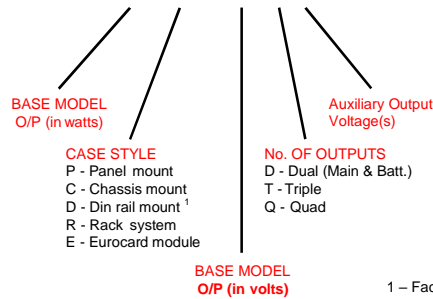
	12V UNIT	24V UNIT
DC Output Voltages V01 Main O/P (Continuous) (Maximum) V02 Battery Charge O/P (Temperature Compensated) V03 Auxiliary O/P	14.4V @ 12.0A 14.4V @ 18.5A 200W - 13.7V @ 0-10A See configuration chart	28.75V @ 7.0A 28.75V @ 10A 200W - 27.4V @ 0-5A See configuration chart
Overload Protection V01 (Primary power limit) V02 (Constant current limit) Over voltage Protection V01 Voltages exceeding V02 Voltages exceeding	Nominal 320w Selectable 0-10A 16V 16V	Nominal 320w 0-5A 32V 32V
Line Regulation (full load) Load regulation	<0.5% <1%	<0.5% <1%
Volt free relay contacts/LEDs	See configuration chart	See configuration chart

EMC - Immunity	EN61000-6-2 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-11
EMC - Emissions	EN61000-6-3 EN55032 Conducted / Radiated
Safety	EN62368-1
Connectors Input Output - V01 - V02 - V03 Signals External Thermistor	5 way, 5.08mm 90° Klippon 2 way, 5.08mm 90° Klippon 2 way, 5.08mm 90° Klippon 2 way, 5.08mm 90° Klippon 6 way, 3.5mm 90° Klippon 2 way, 5.08mm 90° Klippon
Input Voltage Input Frequency	85V - 264V AC autoranging 47 - 63Hz
Input Fusing	T6.3A
Inrush Current	<20A peak
Efficiency	>75% under all loads line and environmental conditions External fuse is required
Battery Input	

Ordering information:

ORACLE III 200P-28T5

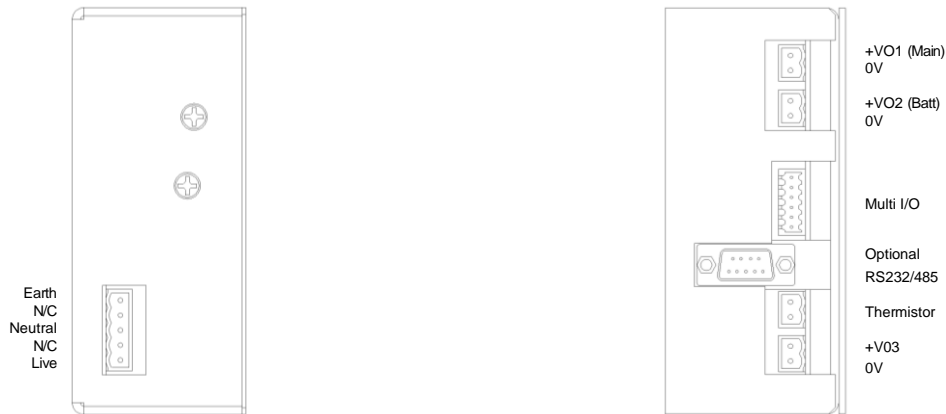
*Note: Option suffixes are added at the end of order description,
eg. B-S1A for battery test and Modbus, top mount serial port - see options above.



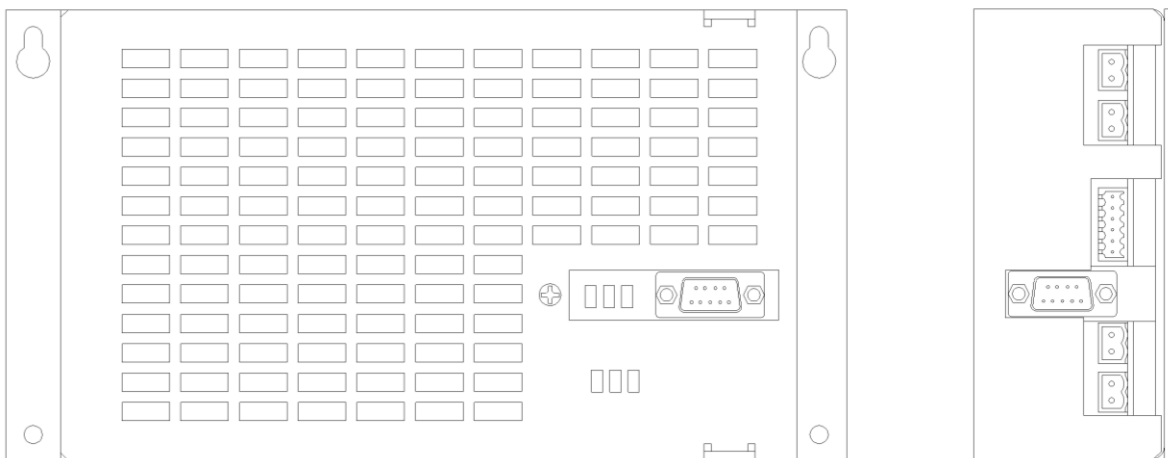
Configuration Chart (Features explained)

Feature	Option	Description
Battery Backed	Standard	Internal diode maintains output with no interruption on loss of mains supply.
Auxiliary Output	Option T'x'	Auxiliary output, available in several Voltage/Current configurations as standard. Other output configurations are available on request. T5= 5V @ 4A, T12= 12V @ 3.3A , T24= 24V @ 1.9A
Battery Test	Option B	Battery test offers the user the option of testing the battery at factory set, or user defined (with a serial communications option) intervals. Battery test software is available for a wide range of batteries, from several manufacturers.
Serial RS232 Comms	Option S'xx'	Serial RS232 communications is available in two formats in a range of protocols. Available in "monitoring only" or "configurable data" (option C below). S1x = ModBus, S2x = DeviceNet, S3x = Canbus, S4x =IrDa The card provides two volt free relays as standard.
Configurable data	Option C	Configurable data allows the user to input system parameters data using a laptop or terminal via the RS232 link. Allows the selection of parameters such as battery type, battery test interval, battery current limit etc.
Volt Free Relays / LED's	Option V	An Additional Volt Free Relay card is available as an alternative to the Relays RS232 card to provide signal outputs. These can be functionally defined at the factory in software to user requirements. Standard on-board Volt Free Relays are 'Battery Fault' and 'PSU Present'. Standard LED's are 'PSU OK', 'BATT OK' & 'BATT LOW' (The 'BATT LOW' LED flashes when charging.)

Connection details:

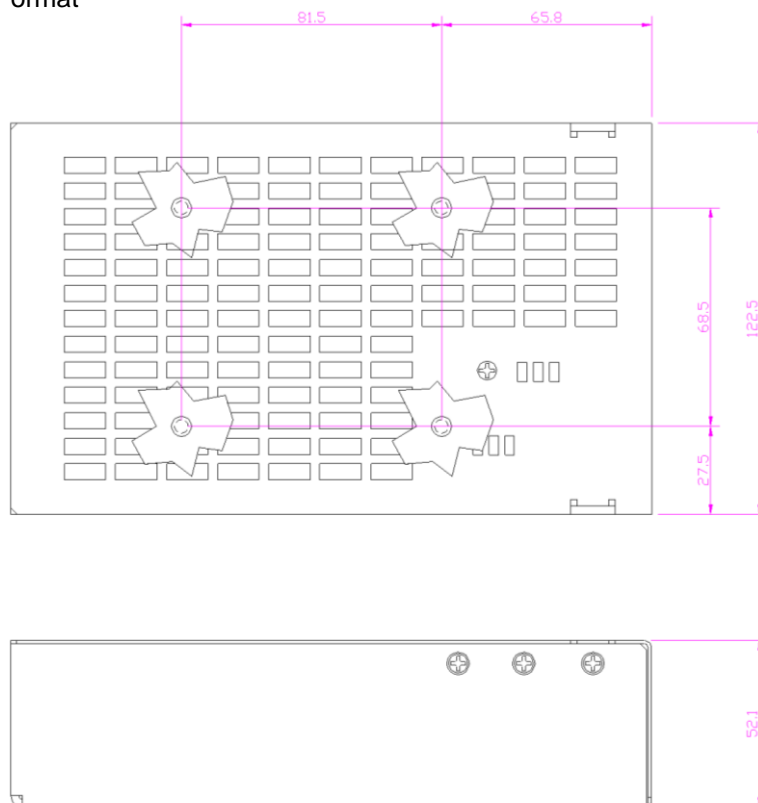


Optional Serial Communications Socket Mounting Positions:



General Arrangement Diagram:

Chassis Mount Format

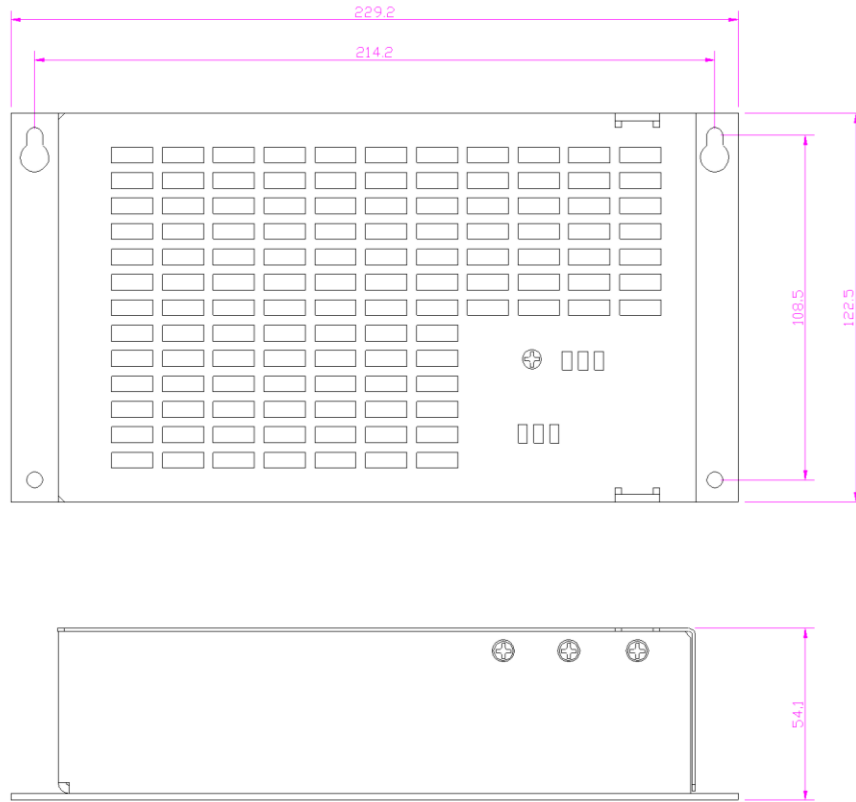


Mounting information

4 mounting bushes M3, screws should not penetrate the unit chassis by more than 5mm.

Note: Add 25mm to overall height for thermo fan option. Adequate airflow through the unit must be provided for all configurations.

General Arrangement Diagram:
Panel Mount Format



General Arrangement Diagram:
Din Rail Mount Format (Factory Fit Option)

