

# CP Power & Automation Ltd

## *Oracle Series 200W Battery Backed Power Supply*



- ☑ 300W Peak Capability
- ☑ Universal Input, AC - DC Switch Mode PSU.
- ☑ Operable in Mains-Free Standby Mode.
- ☑ Boost & Cyclic Charge Modes.
  
- ☑ Optional Auxiliary Output.
- ☑ Intelligent battery charging.
- ☑ Optional serial communications.
  
- ☑ Interchangeable Din Rail, Panel Mounting.
- ☑ PCB Conformal Coating Available.
  
- ☑ Overload & Short Circuit Protection.
- ☑ Current Limit & Polarity Protection.
- ☑ Overvoltage Protection (Main equipment and battery).
- ☑ Undervoltage Lockout Protection.
  
- ☑ CE, EMC & EN60950 Compliant.

## **General Features.**

### **Standard products, custom solutions:**

The latest additions to the growing Oracle range are the feature rich 200W units. Available in a wide range of output configurations, the range offers optimum flexibility and incorporates our proven intelligent battery charging technology.

“Klippon” quick release input and output connectors are fitted as standard, but these also can be user specified. These features continue the philosophy of the Oracle series - customer led design offering maximum functionality to give you minimum downtime.

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

The unit is supplied standard with convection cooling at 200watts in a 40°C ambient and can be fitted with a temperature controlled fan option to extend the operating temp. to 60°C and the power output to 250watts continuous.

### **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 our products, custom specifications can be engineered upon request.

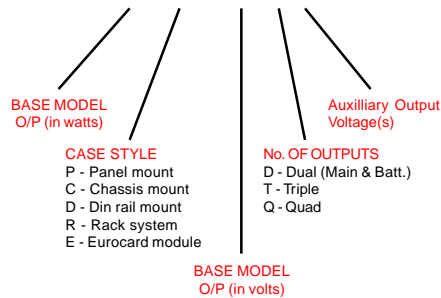
	12V UNIT	24V UNIT
<b>DC Output Voltages</b> V01 Main O/P	200W - 14.4V @ 12.0A 300W - 14.4V @ 18.5A	200W - 28.75V @ 6.4A 300W - 28.75V @ 10A
V02 Battery Charge O/P	200W - 13.7V @ 6.0A 300W - 13.7V @ 6A	200W - 27.4V @ 3A 300W - 27.4V @ 5A
V03 Auxiliary O/P	See configuration chart	See configuration chart
<b>Line Regulation</b> (full load)	<0.5%	<0.5%
<b>Load regulation</b>	<1%	<1%
<b>Overload Protection</b> V01 (Primary power limit) V02 (Constant current limit)	<b>Nominal 320w</b> Selectable 0-10A	<b>Nominal 320w</b> 0-5A
<b>Over voltage Protection</b> V01 Voltages exceeding V02 Voltages exceeding	16V 16V	32V 32V
<b>Volt free relay contacts/LEDs</b>	See configuration chart	See configuration chart

<b>EMC</b>	EN50081-1 Emissions EN50082-2 Immunity
<b>Connectors</b> <b>Input</b> <b>Output - V01</b> <b>- V02</b> <b>- V03</b> <b>Signals</b> <b>External Thermistor</b>	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
<b>Input Voltage</b> <b>Input Frequency</b>	85V - 264V AC autoranging 47 - 63Hz
<b>Input Fusing</b>	T6.3A
<b>Inrush Current</b>	<20A peak cold start
<b>Efficiency</b>	>75% under all loads line and environmental conditions
<b>Battery Input</b>	Protected by reverse parallel diode & fuse

#### Ordering information:

## ORACLE III 200P-28T5

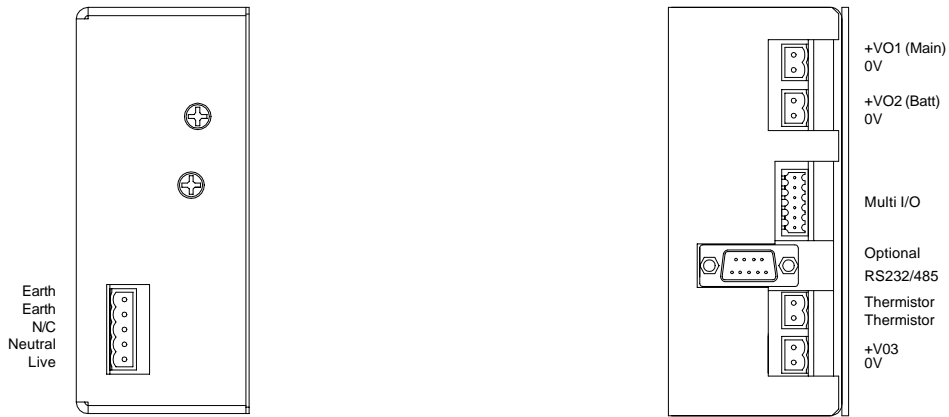
\*Note: Option suffixes are added at the end of order description,  
eg. B-S1A for battery test and Modbus, top mount serial port - see options above.



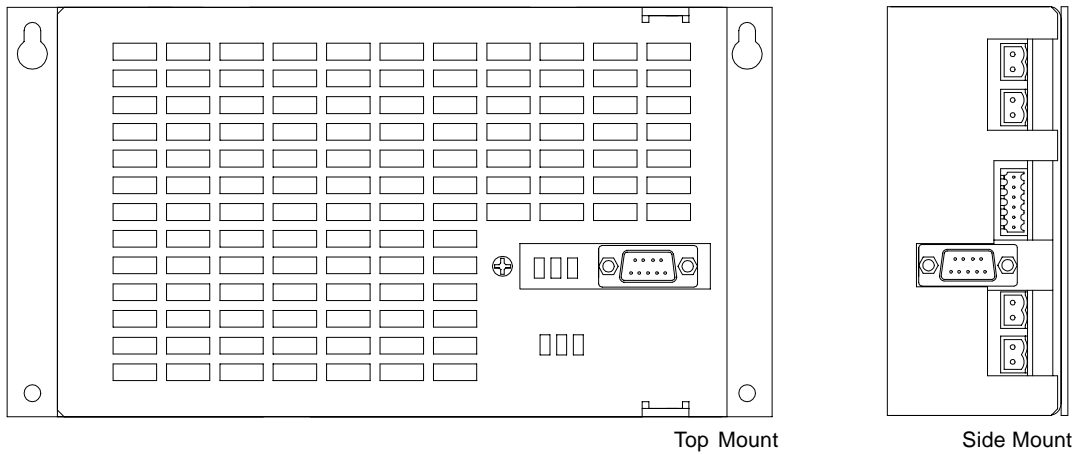
#### Configuration Chart (Features explained)

Feature	Option	Description
Battery Backed	Standard	Internal diode maintains output with no interruption on loss of mains supply.
Auxilliary Output	Option T'x'	Auxilliary output, available in several Voltage/Current configurations as standard. Other output configurations are available on request. T5=5V, T12=12V, T24=24V
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. This card is also available in 2 mounting positions, on top of the unit, or the output end of the unit. SxA = Top Mount, SxB = Side Mount.
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	Option V	A 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.

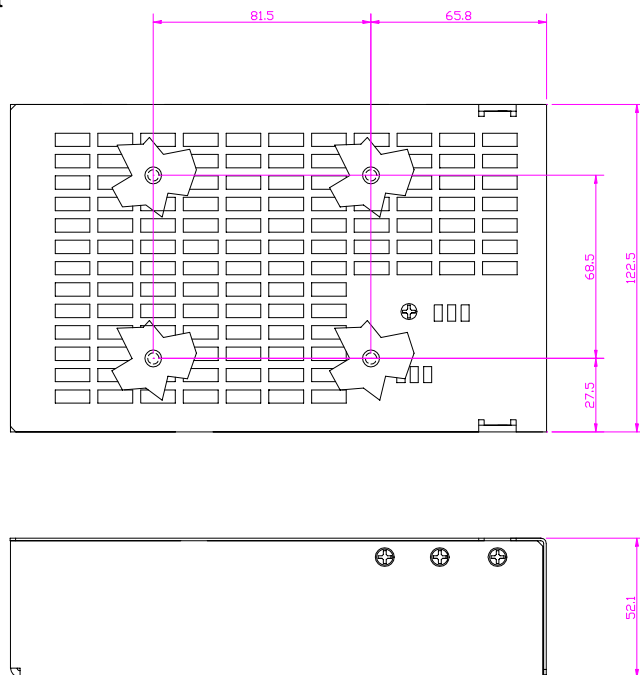
**Connection details:**



**Optional Serial Communications Socket Mounting Positions:**



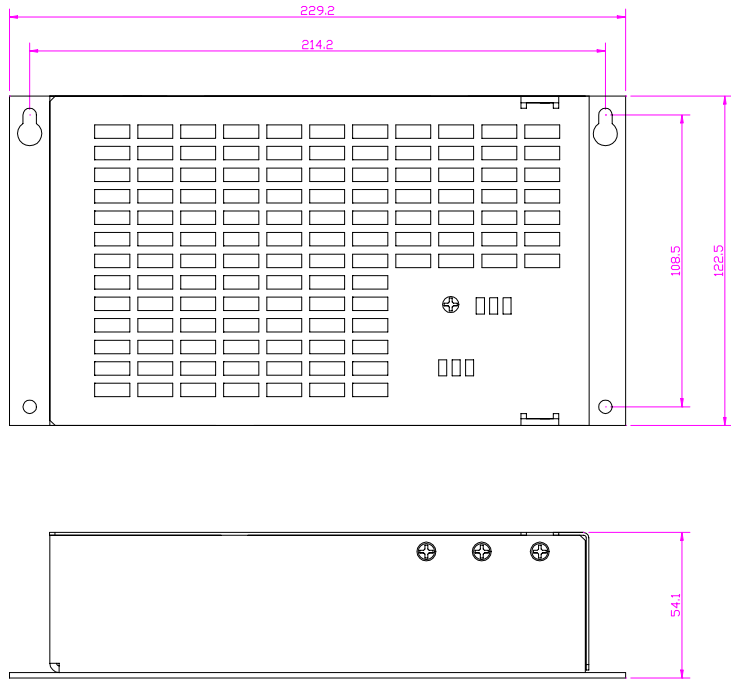
**General Arrangement Diagram:  
Chassis Mount Format**



**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

