

12V **24V** **48V** Power Module **100D**

100 Watt Power Supply/Charger:

- MicroProcessor Controlled
- Active battery monitoring and test
- Optional auxiliary output (5,12 or 15V)
- Universal input voltage: 85 - 264VAC
- Power Factor Correction
- Panel/Chassis or optional Din rail mount



Electrical

Input Voltage: 230 Volt (85-264) single phase
 Input Frequency: 47-63 Hz
 Input Current: 1.5 Amp maximum , sinusoidal
 Inrush <8 Amp peak

Main o/p range, current limit, power & efficiency

- 12V** 12 - 15 Volt, 8.3 Amp, 100 Watt, 80% (typical).
- 24V** 24 - 30 Volt, 4.2 Amp, 100 Watt, 85% (typical).
- 48V** 48 - 60 Volt, 2.1 Amp, 100 Watt, 90% (typical).

Regulation: Load and line <100 mV
 *Charging voltage is varied with temperature to extend battery life.

Output Ripple: <50 mV peak to peak

Optional auxiliary outputs

Choose one of the following standard upgrades

•5 Volt/6 Amp •12 Volt/3 Amp •15 Volt/2 Amp

This output is isolated so may be connected to give a -ve or +ve supply relative to the main output.

Other voltages can be supplied on a bespoke design basis

Protection

Input: Internal fuse.
 Battery: Incorrect voltage or polarity
 Deep discharge via load disconnect
 Temperature compensation option*
 Internal fuse
 AC: MOV surge protection
 DC fault: Output overvoltage shutdown
 Output short circuit protection
 Over temperature: Output power limiting

Indicators & Alarms

Mains Present: Green LED indicator
 Module Fault: Red LED indicator and volt free contact
 Indicates the following conditions;
 Output volts low,
 Output volts high,
 Mains fail.
 Battery Fault: Red LED indicator and volt free contact
 Indicates the following conditions;
 Battery not connected,
 Battery unable to support load,
 Battery nearly discharged.

Battery Testing

Availability: Continuous monitoring of battery condition.
 Capacity: Optional safe discharge test to determine available battery capacity

Environmental

Cooling: Natural Convection
 Temperature: -15 to +60°C operational
 -25 to +60°C transport/storage
 Relative humidity: 0 to 90% non condensing
 Altitude: to 1500 metres
 Safety: CE EN60950
 EMC: CE EN50081-1 & EN50082-2

Physical

Size: 173 x 97 x 71mm (LxWxH)
 Weight: < 0.65kg
 Level of Protection: IP20



