

100 Watt Power Supply/Charger



- The 100D is an intelligent power module
- MicroProcessor controlled
- Active Battery monitoring and test
- Panel/Chassis or optional Din rail mount

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- 12V, 24V and 48V output options available
 - Optional auxiliary out (5,12 or 15V)
 - Universal input voltage: 85 – 264 VAC
 - Power Factor Correction

INPUT

AC Voltage	: 230VAC (85-264) Single Phase
Current	: 1.5A maximum, sinusoidal Inrush <8A peak
Frequency	: 47 – 63Hz

OUTPUT

12V	: 12-15V, 8.3A, 100 Watt, 80% (typical)
24V	: 24-30V, 4.2A, 100 Watt, 85% (typical)
48V	: 48-60V, 2.1A, 100 Watt, 90% (typical)

Regulation	: Load and Line <100mV *Charging Voltage is varied with temperature to extend battery life
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Ripple	: <50mV peak to peak
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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 temperate	: Output power limiting

INDICATORS AND ALARMS

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

BATTERY TESTING

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

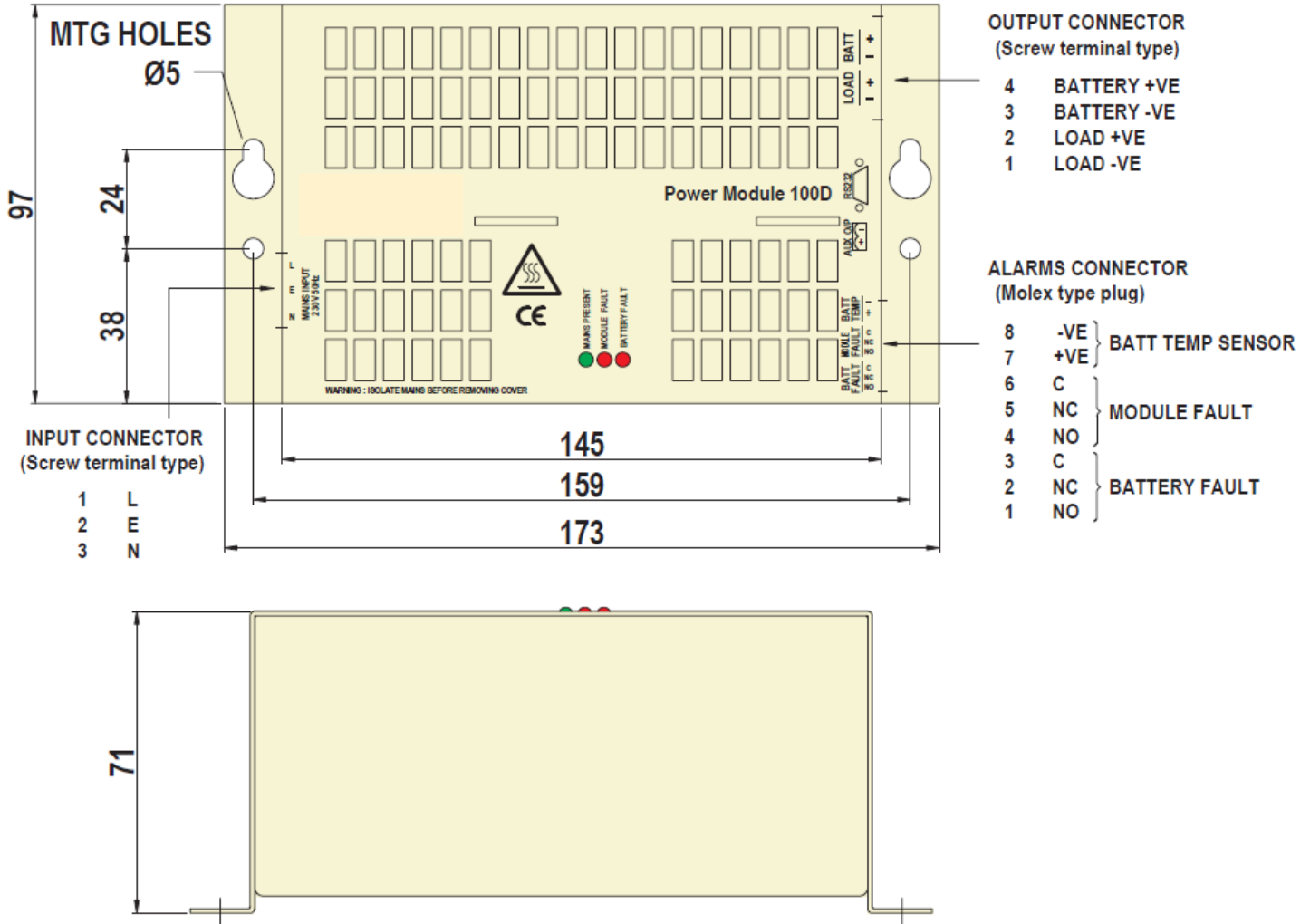
ENVIRONMENTAL

Cooling	: Natural Convection
Temperature	: -15°C to +60°C operational : -25°C to +60°C transport/storage
Relative Humidity	: 0-90% non-condensing
Altitude	: to 1,500 metres
Safety	: EN60950
EMC	: EN50081-1 & EN50082-2

MECHANICAL

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

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OPTIONS AND UPGRADES

- Auxiliary Output** : Standard DC options are 5V 6A, 12V 3A or 15V 2A
Bespoke designs can also be provided. Part design charge or volume contract
- Bespoke Software** : Alarm levels can be programmed to a customer chosen settings
Custom Alarm delays top prevent nuisance alarms
Additional alarm conditions (ie, Battery temperature outside range)
- Battery Temperature Sensor** : Maximise battery life with temperature compensation. In order to prevent unnecessary battery gassing and the resultant permanent loss of battery capacity, the 100D continuously monitors the battery operating temperature and sets its output level to optimum charge voltage.
- Conformal Coating**