

220 Watt Power Supply/Charger



- The 220D is an intelligent power module
- MicroProcessor controlled
- Active Battery monitoring and test
- Panel/Chassis or optional Din rail mount

- 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 : 3.1A maximum, sinusoidal Inrush <8A peak
 Frequency : 47 – 63Hz

OUTPUT

12V : 12-15V, 17A, 200 Watt, 80% (typical)
 24V : 24-30V, 9A, 220 Watt, 85% (typical)
 48V : 48-60V, 4.6A, 220 Watt, 90% (typical)

Regulation : Load and Line <100mV
 *Charging Voltage is varied with temperature to extend battery life

Ripple : <50mV peak to peak

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

MECHANICAL

Size : 222mm x 108mm x 70mm (LxWxH)
 Weight : <0.85kg
 Level of Protection : IP20

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

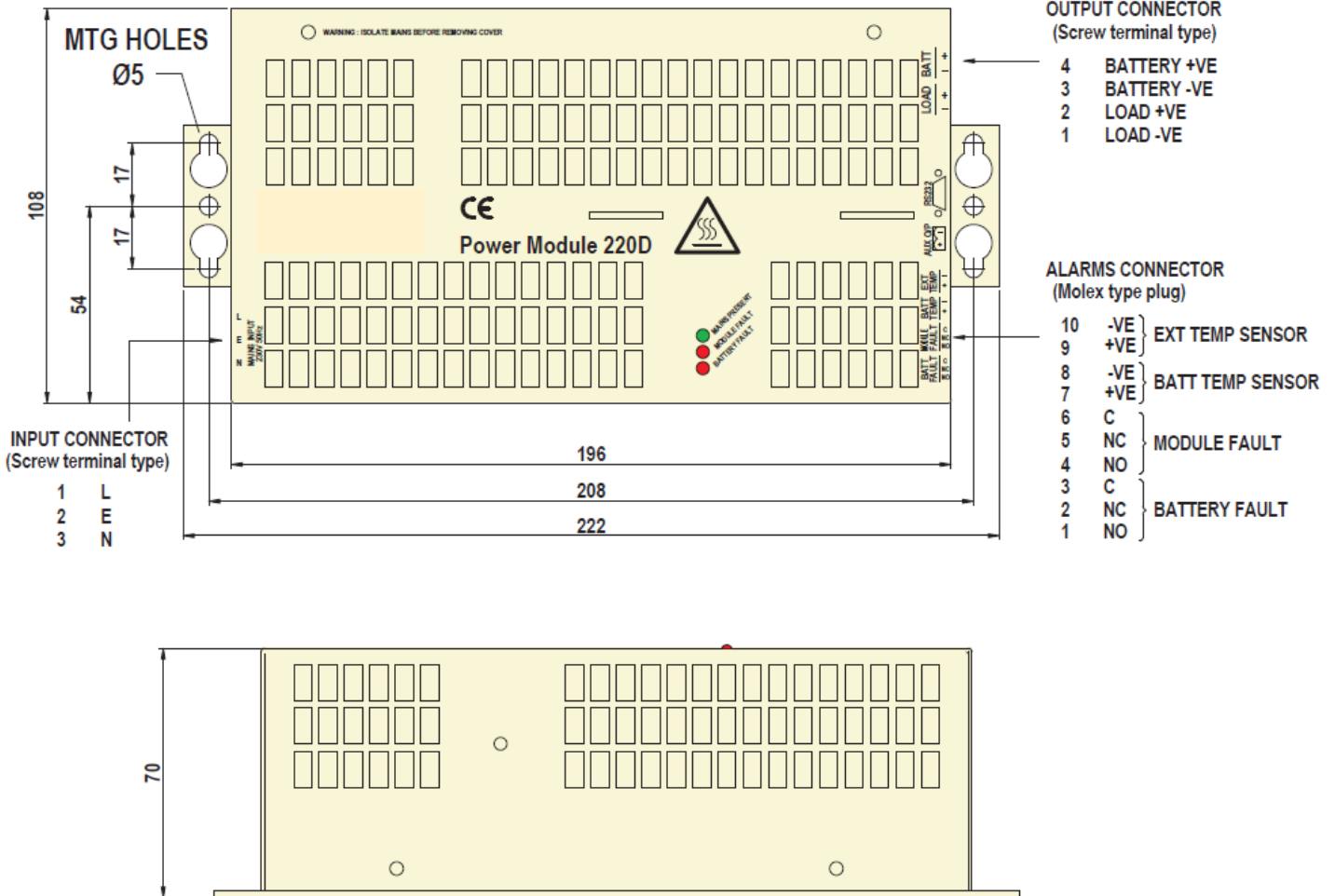
BATTERY TESTING

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

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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**