

EMBC-8025 Intelligent Battery Charger & Power Supply



Product Description

EMBC-8025 is an Intelligent Battery Charger & 24V DC Regulated Switching Power Supply. This one body with two devices is to eliminate all the looping wires between Charger & Power Supply Unit. The EMBC-8025 is a 3 stages, BULK, ABSORPTION and FLOAT intelligent charger with protection against over voltage, reversed polarities and output short circuit. It is designed to offer maximum life for battery and represents the state of the art of today's technology for battery charging. The power supply is built-in with overload, over voltage and short circuit protections. The switching power supply automatically switches over to Battery Backup when main failure is detected. EMBC-8025 is equipped with a battery Low Cut that prevents the battery from being over discharged during backup.

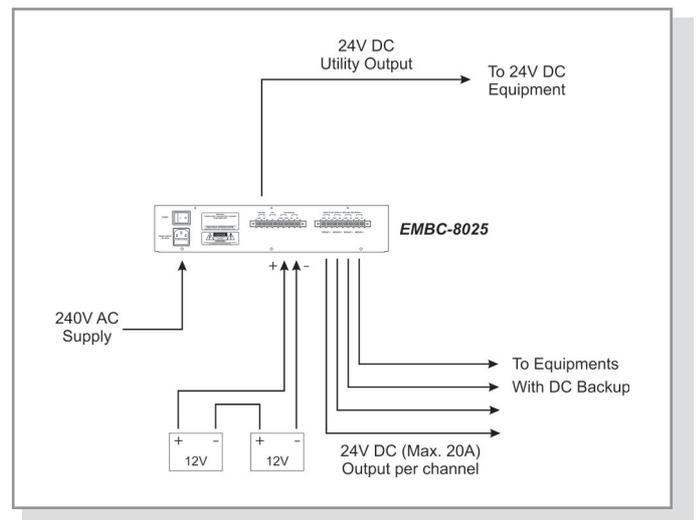
Features

- PIC microcontroller controlled 24V Intelligent Charger
- 3-stages charging mode BULK, ABSORPTION & FLOAT
- Charger suitable for 24V batteries from 2Ah to 200Ah
- Protection against battery from over charging
- Protections against terminals short-circuit or reverse polarity
- Sensor to detect battery over voltage or low battery
- Adjustable constant charging current from 1 to 5 Amp
- Prevent over discharge with Battery Low Cut (BLC @18V)
- LCD to display Battery Voltage, Charging Voltage & Current
- Comes with 24Vdc (4A) regulated switching power supply
- Protection against output short circuit & over current

Technical Specifications

Power Requirement	240Vac 50Hz
Power Consumption	100mA at 240Vac (standby)
Charging Current	Adjustable 1 to 5 A
Charging Voltage	29V DC (Absorption mode) 27Vdc (Float charge)
Battery capacity	2Ah to 200Ah (SLA)
Protections	Over voltage, over current Short circuit, low cut (BLC)
Power Supply	24V DC (4A) regulated, switching Short circuit & overload protected
Cooling	Smart Fan air cooling
Display	2x20 LCD to display system status
Dimension (WxHxD)	483mm x 88mm x 390mm (2U)
Weight	7.3 kg

Application Schematic



rear view

