

Model MECH OBC

Online Battery Charger

Applications

- Battery charger for 12V SMF batteries from 1-80 A.H.
- Electronic equipment requiring isolated DC power not subject to disturbances or disruptions.
- Supervisory Control & Data Acquisition (SCADA) RTUs and communication equipment..
- Systems requiring Uninterruptable DC power, where AC power is available for battery charging.
- Process metering and billing equipment requiring continuous power for measurement integration

Features

- MECH OBC delivers 12 A of output current at 12VDC
- Charger inputs 230 VAC.
- Charge level monitor provides an indication of the battery charge on LED.
- High isolation design of AC charger input provides high common mode isolation critical for sensitive measurement equipment.
- Power failure indication on LED with potential free contact.
- Reverse polarity indication for output.
- Output over load protection.
- Over voltage protection for Input and Output.



Description

The model MECH OBC is designed to deliver power line isolated Uninterruptable power for precision instrumentation systems. The MECH OBC will operate in harsh environments.

The primary function of the charger is to maintain a lead acid battery in a temperature compensated floating fully charged state. When maintained in this state, lead acid batteries can have a useful life of many years. Battery life decreases with repeated discharge cycles and increasing depth of discharge. When the charger loses input power, and there is no auxiliary-charging source is active, external equipment draws power from the battery. When input power is restored, the battery charges the appropriate rate until it is completely charged, at which time the charger switches to the float mode.



Specifications

Input Power:	Input Connector Fuse (230VAC)	230 VAC 50 Hz, 0.5 A ICE power entry module 0.5 A,
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Battery:	Type Support Cap. Protections Battery U/V Connection	SMF (Not included) 1-80 A-h. Reverse polarity conn. Auto load disconnect. I/P, O/P Over voltage. Screw clamp wire termi.
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Charging Rate:	20-80 A-h cap.	Regulated to 3 A.
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Outputs:	12 Vdc . Connections Wire size Protection	Screw clamp wire terminal 28-14 AWG Over voltage
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Ground Conn.	Earth	Through M-6 screw
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Indicators:	LEDs	Input 1 Active (AC) Input 2 Active (Auxiliary) Battery charging Battery low Reverse polarity O/P overload
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Controls:	AC power ON/OFF O/L reset	Switch on front panel Switch on front panel
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Mechanical:	Material finish(Paint) Dimensions Weight Mounting	Alluminium RAL 7032 438X280X132mm. 4.5Kg. (9 Lbs) 19" Std. Rack mount
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Environmental:	Temperature Relative Humidity	-20° to 60° C 0 to 90 %.
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Ordering Information**Basic Model**

Model No.	Description
OBC_1210	Online Battery Charger

Available Accessories

Part code	Description
RB_12-65	Sealed Maintenance free 12 v Rechargeable Battery W/ Cable.



MECHATRONICS
Measurement and Control

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