

NEW

Mobile Data Power System



- Provides uninterrupted voltage to mobile data and devices when vehicle battery falters.
- Protects against system crash and loss of data due to voltage loss during engine start or under-charged vehicle batteries.
- Internal 3 stage, temperature compensated charger maintains back-up battery in full charge state ready to provide supplemental 12 volt power for up to 60 minutes.
- Built-in noise filter reduces interference.

The Mobile Data Power, model MDP-20, is a device designed to solve the common problem of mobile data computers, terminals, and processors crashing due to loss of power as a result of a variety of unfavorable electrical events on the vehicle. It has an internal battery with a dedicated 3 step, temperature compensated charger that maintains the battery at full charge, ready to be switched on-line when a fault or degradation of primary vehicle battery occurs. Utilizing a high speed sensor circuit, when primary vehicle voltage drops below a critical point, the internal battery is switched on-line in microseconds, assuring no interruption to the powered device(s). If the primary battery source does not recover in 3 seconds, it disconnects and isolates itself from the vehicle battery and the mobile computer is powered solely by the MDP-20 back-up battery, capable of delivering 20 amps for up to 10 minutes. When proper vehicle battery voltage is restored, the sense circuit redirects the load to the main vehicle battery, and the internal battery goes off-line and is rapidly recharged. This functionality assures continued operation of MDTs under a variety of adverse vehicle battery conditions

- Voltage dip during engine cranking
- Voltage droop due to loading high power accessories, and aging batteries
- Cycling of master disconnect Switch
- Vehicle battery change out
- Jump starts.

NEWMAR[®]*DC Power Onboard - Emergency & Specialty Vehicles*

Newport Beach, CA USA

www.newmarEVpower.com ▪ 800-854-3906

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Specifications

Normal Operating Conditions

- Input range: 10.2V – 15.5V (start-up is 11.5V)
- Maximum Load Current: 20 amps
- Internal Charger Current Draw: 4 amps
Max @ 10V input (battery fully discharged)
- Input Noise Filtering: Audio through 200MHZ
- Temperature: 0 – 50° C
- Standby Current Draw: <100mA
(when internal battery is fully charged)

Battery Operation

- Internal battery switches online when
vehicle battery voltage = 10 V ± 1 V
(Vehicle battery disconnects after 3 sec.)
- Vehicle battery reconnects @ 11.5 V ± 1 V
- Internal Battery: 9 AH, sealed Lead Acid
Power delivery @ > 10.2 volts
 - 20 amps @ 10 minutes
 - 10 amps @ 20 minutes
 - 5 amps @ 60 minutes
 - 2 amps @ 180 minutes
- Internal Battery Disconnect: < 9.6 V

Internal Battery Charger

- Charge Current: 2 amps max., three-stage
(Bulk, Absorption, Float)
- Temperature Compensated
- Bulk = 2 amps <14.2V
- Absorption = 14.2V (>0.5 amps)
- Float = 13.6V (<0.5 amps)
- Battery Recharge Time: 4 Hours

Indicators

- Input Power Source: Green (Input > 10.5V)
- Backup Power Source: Amber (Input <10V)
- Internal Battery on Charge: Green

Protection (Fuses)

- Input: 20A Mini Auto (front panel)
- UPS Battery: 20A Mini Auto (front panel)

Connections

Terminal Block: #6 screw, 7/16" spacing

Mechanical

Contact Factory

Note: Specifications subject to change.



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