The Mobile Data Power, model MDP-25.0, is a DC UPS that solves the common problem of lengthy reboot sequences, system crash, data and hard drive corruption in mobile computer work stations due to a low voltage and loss of power as a result of intermittent or poor vehicle battery condition. In addition, the MDP provides a low voltage output warning signal to terminals (such as Motorola® MW 800 series work stations) allowing orderly automatic shutdown of the powered device, protecting data and preventing hard drive corruption.

Utilizing a high speed sensor circuit, when primary vehicle voltage drops below a critical point, the internal 9AH battery is switched on-line in milli-seconds, assuring no interruption to the powered device(s). The MDP-25.0 has an internal 3 step, temperature compensated charger that maintains its reserve battery at full charge, ready to go on-line when a fault or degradation of primary vehicle battery occurs. This functionality assures continued operation of mobile computers under a variety of adverse vehicle battery conditions. An optional timed load feature (TMR), when activated, begins timing when the vehicle battery drops to a 12.0 VDC or less for added battery protection.

Housed in a rugged aluminum case and heavy duty mounting plate, the unit is designed for installation in service and other utility vehicles that require a steady source of voltage for mobile computers, work stations, and electronics.

**Features**

- Protects mobile computers against system crash, lengthy reboot sequences, and loss of data due to:
  - Voltage dip during engine cranking
  - Voltage drop and decay due to loading high power accessories, and aging batteries
  - Voltage loss due to cycling of master disconnect switch and battery failure
  - Noise, interference or voltage spikes

- Provides supplemental voltage in milli-seconds to mobile electronics when low vehicle battery is sensed.

- Optional timed load disconnect feature (TMR)

**Battery Connect Sequences**

- Internal battery switches online when vehicle battery voltage = 10.0 V ± 1.0 V (Vehicle battery disconnects after 3 seconds if low voltage condition persists)
- Vehicle battery reconnects @ 11.5 V ± 1.0 V
- Internal Battery Low Voltage Disconnect: <9.6V

**Temperature Rating:** Operating Temp: 0 – 50° C

**Mechanical**

- Aluminum case with access door for easy removal of battery
- Heavy duty mounting suitable for commercial vehicle use

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Range</th>
<th>Output Voltage</th>
<th>Maximum Load Current</th>
<th>Standby Current Draw</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDP-25.0</td>
<td>10.2 - 15.5V (start-up @ 11.5V)</td>
<td>12VDC</td>
<td>25A</td>
<td>&lt;50mA - operating mode, &lt;30mA - sleep mode</td>
<td>5.75</td>
<td>9.4 Lbs.</td>
</tr>
</tbody>
</table>

**Battery Specification**

- 9 AH, sealed Lead Acid - typical life 5 years, easily replaced via front panel access door.
- Power delivery @ > 10.2 volts @ 25°C
  - 5 amps @ 60 minutes
  - 10 amps @ 20 minutes
  - 25 amps @ 8 minutes
- When imminent Voltage decay to 11.5 VDC is projected (adjustable set point)
- On Charge/Discharge
- Internal Battery Charger
- Charge Current: 2 amps max., three-stage (Bulk, Absorption, Float)
- Temperature Compensated