

POWER DISTRIBUTION MANAGER

QUICK START GUIDE



Model number: PDM-20-8

TOWA Industries, LLC.

PRODUCT OVERVIEW / INTENDED USE: The TOWA Industries PDM model PDM-20-8 is a standalone power management appliance that allows up to 8 low power ac charge systems (120V/16A or less) to be charged off a single 120V/20A circuit. The unit comes fully operational with no system software configuration required. Once installed connect up to 8 battery powered lawn or shop power equipment devices for recharging. The load recognition software within the PDM will immediately sense and balance overall demand to keep peak circuit load to less than 16A even with multiple power charge units connected at the same time to the unit.

The system is most applicable to commercial environments where multiple charge units will require charging, for example at shift change or end of day plug in (i.e.: commercial landscaping, multiple walkie-talkie stations, or charge stations for shop or commercial cleaning equipment). With the PDM unit, utilize the onboard load sensing technology to automatically switch power from charged units to units needing power rather than having to monitor and manually plug in and unplug units as they charge during off usage time. Install the unit convenient to your power equipment charge racks to reduce these nuisance operations while dramatically reducing the circuit requirements to charge all your power equipment with minimal oversight.

SYSTEM COMPONENTS AND SETUP INSTRUCTIONS:

Input requirements: 120V/20A outlet, compatible with 20R receptacle.

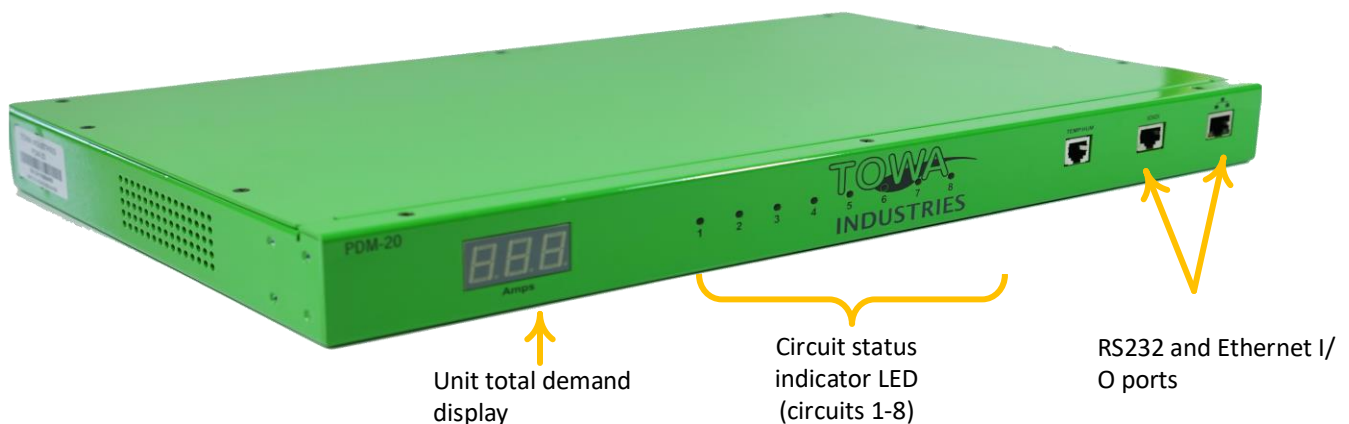
Kit Components (see figure below):

- (1) Qty-1, PDM-20-8 Power Distribution Manager
- (2) Qty-1, C-20 power input cord, 8 ft.

UNIT APPEARANCE AND IDENTIFICATION:

See figure below for identification of ports and labels

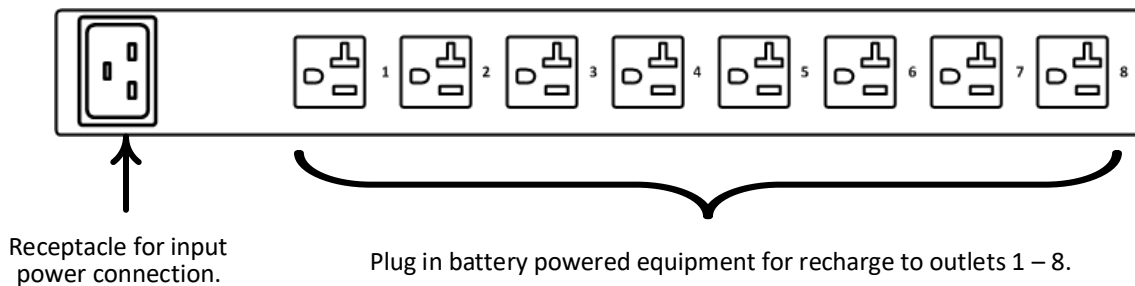
Note: Input and 8x 20R receptacles across back face of unit (not shown).



Power Distribution Manager, Front panel view

INSTALLATION AND SETUP:

1. Select a convenient location in your shop or commercial space to localize charging for your battery power equipment (120V/ 20A max load demand for each of your items needing charging). For every 8 items to be charged ensure you have (1) PDM-20 unit and (2) a 15/20R outlet.
2. Connect unit to power, plugging in the NEMA 5-20P/C19 power cord to the input connector (see below)
3. Watch for operational LEDs to light up once 1-8 on the front panel to complete their initiation sequence to demonstrate operational unit status.
4. Once complete, start plugging in charge units to the output receptacles 1-8 on the reverse face as needed.
5. The software controls within the unit will automatically sweep available loads and determine the optimal configuration of open/closed outlets to keep total demand under 16A. As units become fully charged the software will automatically re-balance the configuration of open and closed outlets to keep overall demand within the limit of the socket powering the unit.



Power Distribution Manager, Back Panel



SAFETY: Board is UL Component certified under UL File E206903

- Switching and monitoring, 120-240Vac 50/60Hz, 30A input
- 120V/16A output per channel
- NWGQ: Information Technology Equipment Including Business Equipment



Indicated presence of potentially harmful electrical shock hazards. De-energize circuit and consult instruction prior to operation.

Outlet	Status	Power	Action	Refresh	Outlet	Load
1	On	Off	Reboot	↻	Outlet 1	0.0A
2	On	Off	Reboot	↻	Outlet 2	0.0A
3	On	Off	Reboot	↻	Outlet 3	0.0A
4	On	Off	Reboot	↻	Outlet 4	0.0A
5	On	Off	Reboot	↻	Outlet 5	0.0A
6	On	Off	Reboot	↻	Outlet 6	0.0A
7	On	Off	Reboot	↻	Outlet 7	0.0A
8	On	Off	Reboot	↻	Outlet 8	0.0A
ALL	On	Off	Reboot	↻	ALL OUTLETS	0.0A

Save Startup State

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Remote connectivity & interface available.
Contact us for details

Protected under the following patents and patent pending: 20040064198,20040064198, 7550870, 7630186,7672104

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