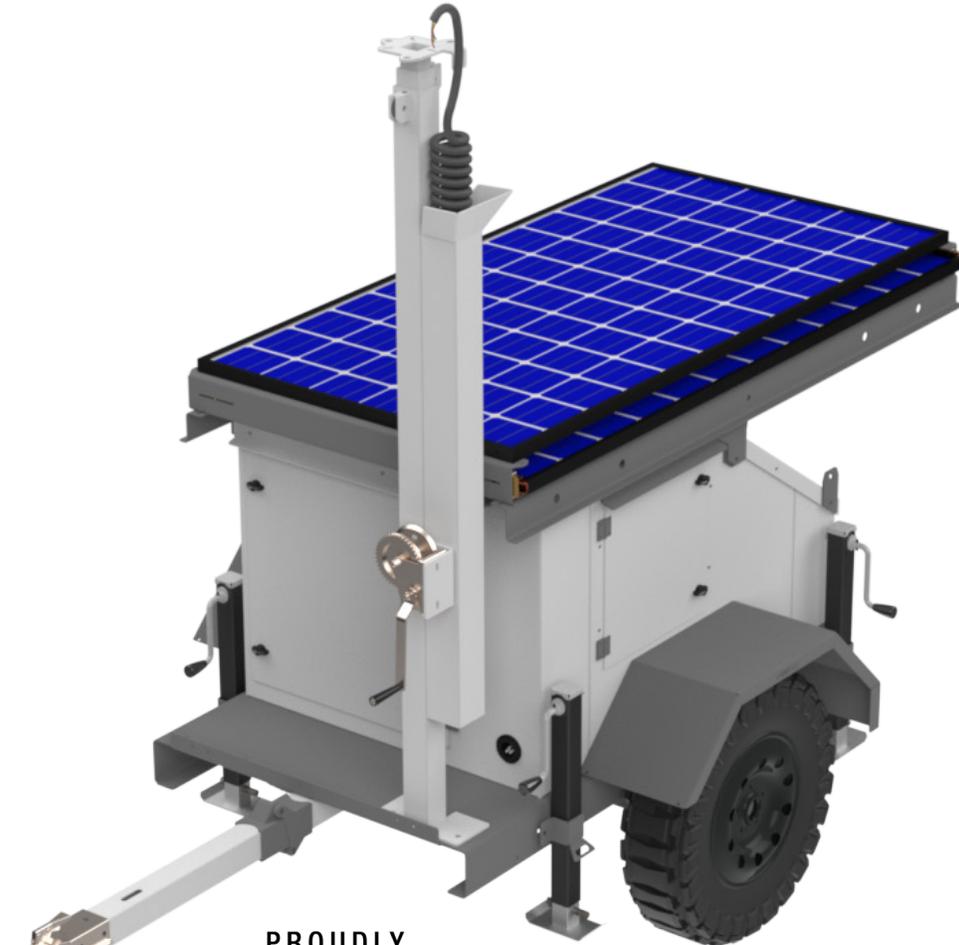




## MDT-400 | MDT-800 | MDT-1200 | MDT-1600 Trailer Range

For Cameras, Communications, and Lighting



### Vorp Energy

- 📍 4774 South Hwy 191  
Rexburg, ID 83440
- 📞 Phone : + (208) 904-0424
- ✉ E-Mail : support@vorpenergy.com



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# MDTQuick Guide

## Breakers

Turn on in ascending order/off in descending order

- 1 - **Battery**: connects charger to battery bank
- 2 - **Solar**: connect charger to solar panel array
- 3 - **Load**: enables 24VDC available through green terminals
- 4 - **Inverter**: enables 120VAC through one NEMA 5-15 3 prong receptacle

## DC Phoenix Terminals

- 2 Negative contacts on left side of terminals
- 2 Positive contacts on right side of terminals

Load - straight through connect to battery bank

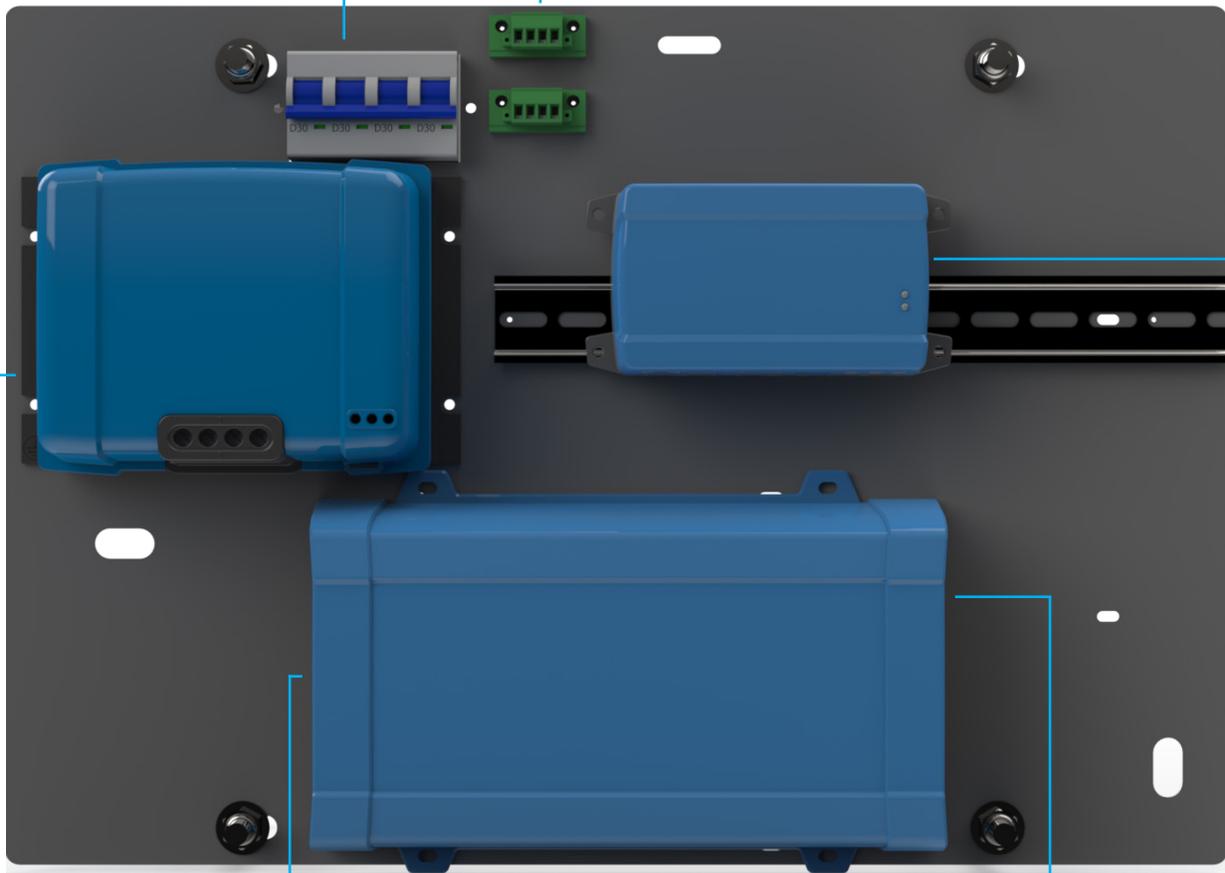
Relay - programmable relay controlled through the Remote-M device

## Remote-M

Connects to online portal allowing viewing of key system parameters to ensure a healthy system

Can be connected to the communication device by use of WiFi, however a hardline is recommended to prevent interference by trailer body if the communication device is located outside of the PA cabinet

Portal allows control of the other systems connected to this device which acts as the "brain" of the system



## MPPT Solar Charger

LED Indicators (*color coded*):

**Bulk** - charges the battery bank to 80% as quickly as possible; 1 to 2 hours

**Absorption** - charges the battery bank from 80% to 100% at a reduced rate charge; may take up to 6 hours, usually less than 4 hours

**Float** - will keep the battery bank on a trickle charge until the battery bank drops below a specified voltage; below 27.4VDC

## Inverter Output

This side of the inverter has, 1 NEMA 5-15, 3 prong plug

The output voltage is 120VAC with a Watt capacity of 375W

## Inverter manual switch

Has three positions:

**On** - provides full voltage and current, all of the time

**Off** - turns the inverter off regardless of breaker 4 position, usual cause of no output for the inverter

**Eco** - if the current draw drops below 0.2A the inverter will cut the output off, will check every 30 seconds for an increase in draw

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