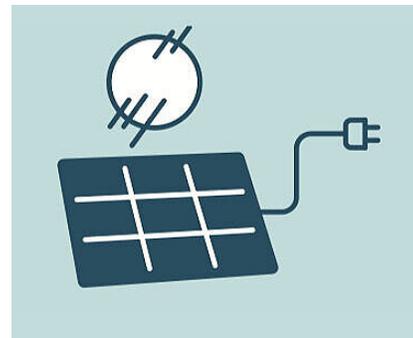


Mobile Solar Power Grid

This Mobile Solar Power Grid generates power from the sun that can be stored in batteries or used immediately to support disaster responders and community members in a power outage.



Total Solar Capacity: 16 kilowatts

Total Battery Storage Capacity: 38.4 kilowatt hours

Portable	Towable	Palletized	Containerized
 Inverter: 1-2 kW Battery: 2-5 kWh Solar: Up to 2 kW	 Inverter: 2-20 kW Battery: 10-100 kWh Solar: 2-10 kW	 Inverter: 10-50 kW Battery: 10-100 kWh Solar: 10+ kW	 Inverter: 50+ kW Battery: 100+ kWh Solar: 10+ kW

Different types of mobile solar power grids

Footprint Project built this trailer in partnership with UMCOR thanks to support from the Ray C. Anderson Foundation and other partners.

The North Georgia Conference Early Response Team stewards the trailer in collaboration with UMCOR. The team will use it to provide electricity in U.S. disaster situations by powering tools and infrastructure, supporting communities with lighting and charging, and addressing whatever energy needs arise.



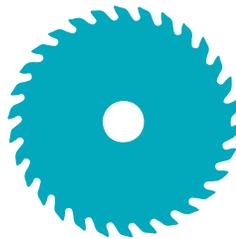
Mobile Solar Power Grid: Capacity Summary

Battery Capacity (Each)	200 Ah @ 48 V = 9.6 kWh
Battery Capacity (Total)	800 Ah @ 48 V = 38.4 kWh
Solar Panel Wattage	540 watts / panel (large) 400 watts / panel (small)
Solar Capacity	16 kW Total 1.5 kW (Roof Array) <ul style="list-style-type: none"> • 4 Small Panels (400 watts each) 14.5 kW (Ground Array) <ul style="list-style-type: none"> • 24 Large Panels (540 watts each) • 4 Small Panels (400 watts each)
Inverter Wattage	15 kW
Inverter Amps @ 120 V	125 A
Inverter Amps @ 240 V	62.5 A

How long can the trailer batteries power these items after a disaster?



300w computer : 128 hrs



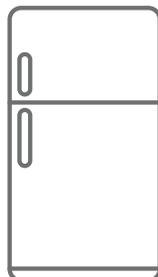
1200w circ saw or coffee maker: 32 hrs



1400w microwave: 27.4 hrs



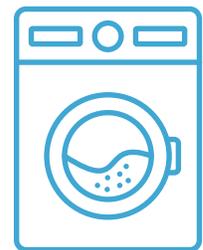
1850w wet/dry vac: 20.8 hrs



325w fridge: 118.2 hrs



1350w heater: 28.4 hrs



500w washer: 76.8 hrs