



RPMS24 LFP Series

DATA SHEET

MobileSolarPro® LFP

Features

- **Low Cost Complete Mobile Solar Remote Power Solution** for Off-Grid operation. Fully Assembled. Sets up in minutes.
- **Weatherproof Outdoor Locking Enclosure** with Wide Temp LiFePO4 Lithium Batteries. Thermostatically Controlled Ventilation.
- **Up to 1440W Solar Capacity** – Supports up to 315W continuous power with 6 Hrs. Peak Sun. Heavy Duty galvanized 360° adjustable solar mount with 10-65deg tilt. 25Year Solar Panel Warranty.
- **MPPT Temperature Compensated Solar Charge Controller:** 60A Solar, 30A Load, 99% Efficiency.
- **Complete Remote Monitoring and Control** – Email Alerts and Manual/Automatic Reboot. Monitor Solar Voltage & Current, Battery Voltage & Current, Load Current, Temperature. Disconnect Load Power.
- **Pneumatic Four Position (9ft, 12ft, 15ft, 18ft) Locking Aluminum Extension Mast** for up to 110lb load. Raises fully in about 90 seconds using the integrated air pump.
- **Regulated 12VDC, 56VDC and Un-regulated 24VDC Output at Top of Mast.** Includes surge protected Gigabit 5 port PoE Layer 2 Switch with one 90W 802.3bt PoE Port, three 802.3at PoE+ Ports and one 24V Passive PoE Port, all at top of pole. Dual CAT5 connections between top of mast and battery enclosure.
- **Protected and Secured Wiring** to deter vandals.
- **Dual Charging. Convenient Backup Generator or Grid Power Port.** Charge batteries using solar or AC power.
- **Locking 2" Ball Hitch Tongue Lock.** Four spring actuated extending (36" Max) support jacks.
- **Room for Second Enclosure on Most Models** for tool storage or additional battery capacity.
- **Chrome Wheels, Leaf Spring Suspension, Aluminum Diamond Plate Decking, Powder Coated Welded Steel Tube Construction.**
- **Solar Panel Cover and Ratchet Straps** for secure travel protection, Included.
- **Options:** Tycon BreezePro® Wind Turbine Kit, 2nd frame mounted aluminum enclosure, light kit, guy line kit, ground anchor kit, second battery bank and larger solar array.



*Truck not included 😊

Applications

- Construction Sites
- Surveillance Cameras
- Concerts and Festivals
- Temporary Security
- Off Grid Power
- Parking Lots
- Temporary Remote Lighting
- Emergency Power
- Agriculture

Specifications

Batteries	
Battery Voltage	24VDC

Battery Type	Wide Temp LiFePO4 Lithium
Battery Life	10+years
Solar Panels	
Type	24VDC 360W, Monocrystalline 72 Cell Modules, 25year Life
Solar Controller	
Type	MPPT – Temperature Compensated, 60A Solar Input, 30A Load Output
Self Consumption	<1W
Overcharge Protect	32V
Equalize Charge	29.2V
Bulk Charge	28.8V
Float Charge	27.6V
Over-discharge protect	22V
Over-discharge recover	24V
Remote Access	Ethernet via TPDIN3 Monitor WiFi – Internet connected router req'd Mobile – Cellular router with carrier account SIM req'd
AC Charging	
Input	110/240VAC (Switchable), 50/60Hz, 10A
Remote Monitoring	
Type	Web Based, SNMP, 4 Channel
Parameters Monitored	Solar Panel Volts and Current, Battery Volts and Current, Load Current, Temperature
Controls	Connect / Disconnect Load Output, manually or automated based on programmable rules.
Alerts	Email alerts based on user programmable rules

Extension Mast	
Type	Pneumatic Locking Aluminum
Lock Positions (4)	9', 12', 15', 18' (2.74, 3.66, 4.57, 5.49m)
Time to full extension	90 seconds Typ (using included integrated air pump)
Top Mounting Area	36" x 2.1" diameter (914 x 53mm)
Top of Mast Enclosure	
Type	Aluminum Die Cast
Interior Size	10 x 7.75 x 3" (254 x 197 x 76mm)
Voltages Available (16AWG Wire)	12VDC 15A Regulated, 56VDC 5A Regulated, 24VDC 15A Unregulated
PoE Ports	5 Port Layer 2 Gigabit PoE Switch Port 1 = 90W 802.3bt PoE Port 2-4 = 802.3at 30W PoE+ Port 5 = 24VDC 12W Passive PoE
Equipment Enclosure	
Type	Vented Locking Aluminum Diamond Plate
Internal Size	64.5" x 17.5" x 19.5" (1638 x 444 x 495mm)
Voltages Available Inside Enclosure	56VDC 5A Regulated, 24VDC 30A Un-Regulated, 12VDC 20A Regulated
Mobile Trailer	
Construction	Welded Tubular Steel, Powder Coat Painted. Aluminum diamond plate decking.
Frame Length	Mini: 120" (3m) Standard: 130" (3.3m)
Frame Width	Mini: 72" (1.8m) Standard: 84" (2.1m)
Deck Size	Mini: 52 x 85.5" (1.3m x 2.2m) Standard: 77 x 86.5" (2m x 2.2m)
Tongue	Length: 48.5" (1232mm) ; Weight <200lb (91kg)
Ball Size	2" (50.8mm)
Ground Clearance	13" (330mm)
Solar Panel Height	63" above deck (1600mm)
Wheels	15" (381mm) Polished Aluminum
Suspension	Leaf Spring, 3500lb Axle
Stabilizing Lifts (4)	2000lb (907kg), 3 Position Extension: 0", 15" 36" (0, 381, 914mm)
Misc	
Operating Temp	-22°F to 140°F (-30°C to +60°C)
Wind Speed Rating	90 MPH (40 m/sec)
Warranty	3 Years

System Ordering:

Model #	Frame Type	Solar Panel Output	Solar Array Size	Battery Capacity	Continuous Power Generation*	Reserve Time	Grid Charge Time*	Trailer Weight
RPMS24-800L-MINI	Mini	720W	79 x 77"	800Ah	157W	45hr	8hr	1340lb
RPMS24-800L-MINI-3P	Mini	1080W	119 x 77"	800Ah	235W	30hr	8hr	1400lb
RPMS24-1200L-MINI-3P	Mini	1080W	119 x 77"	1200Ah	235W	45hr	12hr	1540lb
RPMS24-1600L-MINI	Mini	720W	79 x 77"	1600Ah	157W	90hr	16hr	1550lb
RPMS24-1600L-MINI-3P	Mini	1080W	119 x 77"	1600Ah	235W	60hr	16hr	1600lb
RPMS24-1600L-BEAST	Standard	1440W	79 x 154"	1600Ah	315W	45hr	16hr	1800lb

*6hrs peak sun

*@50% discharge

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