



RPMS24 Series

DATA SHEET

MobileSolarPro®

Features

- **Low Cost Complete Mobile Solar Remote Power Solution** for Off-Grid operation. Fully Assembled. Sets up in minutes.
- **Weatherproof Outdoor Locking Enclosure** with High Performance Sealed Lead Acid Battery. 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		Extension Mast	
Battery Voltage	24VDC	Type	Pneumatic Locking Aluminum
Battery Type	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid	Lock Positions (4)	9', 12', 15', 18' (2.74, 3.66, 4.57, 5.49m)
Battery Life	5+years	Time to full extension	90 seconds Typ (using included integrated air pump)
Solar Panels		Top Mounting Area	36" x 2.1" diameter (914 x 53mm)
Type	24VDC 360W, Monocrystalline 72 Cell Modules, 25year Life	Top of Mast Enclosure	
Solar Controller		Type	Aluminum Die Cast
Type	MPPT – Temperature Compensated, 60A Solar Input, 30A Load Output	Interior Size	10 x 7.75 x 3" (254 x 197 x 76mm)
Self Consumption	<1W	Voltages Available (16AWG Wire)	12VDC 15A Regulated, 56VDC 5A Regulated, 24VDC 15A Unregulated
Overcharge Protect	32V	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
Equalize Charge	29.2V	Equipment Enclosure	
Bulk Charge	28.8V	Type	Vented Locking Aluminum Diamond Plate
Float Charge	27.6V	Internal Size	64.5" x 17.5" x 19.5" (1638 x 444 x 495mm)
Over-discharge protect	22V	Voltages Available Inside Enclosure	56VDC 5A Regulated, 24VDC 30A Un-Regulated, 12VDC 20A Regulated
Over-discharge recover	24V	Mobile Trailer	
Remote Access	Ethernet via TPDIN3 Monitor WiFi – Internet connected router req'd Mobile – Cellular router with carrier account SIM req'd	Construction	Welded Tubular Steel, Powder Coat Painted. Aluminum diamond plate decking.
AC Charging		Frame Length	Mini: 120" (3m) Standard: 130" (3.3m)
Input	110/240VAC (Switchable), 50/60Hz, 10A	Frame Width	Mini: 72" (1.8m) Standard: 84" (2.1m)
Remote Monitoring		Deck Size	Mini: 52 x 85.5" (1.3m x 2.2m) Standard: 77 x 86.5" (2m x 2.2m)
Type	Web Based, SNMP, 4 Channel	Tongue length	48.5" (1232mm)
Parameters Monitored	Solar Panel Volts and Current, Battery Volts and Current, Load Current, Temperature	Ball Size	2" (50.8mm)
Controls	Connect / Disconnect Load Output, manually or automated based on programmable rules.	Ground Clearance	13" (330mm)
Alerts	Email alerts based on user programmable rules	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	Tongue Weight
RPMS24-360-360	Mini	360W	39 x 77"	360Ah	78W	28hr	4hr	1340lb	139lb
RPMS24-1440-BEAST	Standard	1440W	79 x 154"	1440Ah	315W	27hr	14hr	2400lb	
RPMS24-720-MINI	Mini	720W	79 x 77"	720Ah	157W	27hr	7hr	1650lb	140lb
RPMS24-720-MINI-3P	Mini	1080W	119 x 77"	720Ah	180W	24hr	7hr	1700lb	107lb
RPMS24-1080-Mini-3P	Mini	1080W	119 x 77"	1080Ah	236W	27hr	9hr	2000lb	112lb
RPMS24-1440-MINI	Mini	720W	79 x 77"	1440Ah	157W	55hr	14hr	2160lb	135lb
RPMS24-1440-MINI-3P	Mini	1080W	119 x 77"	1440Ah	236W	36hr	14hr	2210lb	114lb

*6hrs peak sun

*@50% discharge

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