



Solar®

RPMS24 Skid Series

DATA SHEET

MobileSolarPro® Skid

Features

- **Low Cost Complete Portable Solar Remote Power Solution** for Off-Grid operation. Fully Assembled. Sets up in minutes.
- **Weatherproof Outdoor Locking Enclosure** with High Performance Sealed Lead Acid or Wide Temp Lithium Battery. Thermostatically Controlled Ventilation.
- **720W Solar Capacity** – Supports up to 160W continuous power with 6 Hrs. Peak Sun. Heavy Duty galvanized 360° adjustable solar mount with 10-65 deg tilt. 25 Year Solar Panel Guarantee.
- **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 (8ft, 11ft, 14ft, 17ft) Locking Aluminum Extension Mast** for up to 110lb load. Raises fully in about 90 seconds using the integrated pneumatic 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 CAT6 Shielded connections between top of mast and battery enclosure.
- **Protected, Secured Wiring and Blue Strobe Lights** to deter vandals.
- **Dual Charging. Convenient Backup Generator or Grid Power Port**. Charge batteries using solar or AC power.
- **Can be Moved with Forklift or Pallet Jack**. Four Support / Leveling Jacks.
- **Deck Space**
- **Galvanized Welded Steel Tube/Plate Construction**.
- **Solar Panel Cover and Ratchet Straps** for secure travel protection, Included.
- **Options**: Tycon BreezePro® Wind Turbine Kit, guy line kit and ground anchor kit.



Applications

• Construction Sites	• Surveillance Cameras	• Concerts and Festivals
• Equipment Yards	• Off Grid Power on Demand	• Air Quality Sensors
• Remote Lighting	• Emergency Power	• Remote Pumping
• Agriculture Applications	• Wireless Equipment	• Forest Fire Monitoring

Specifications

Batteries	
Battery Voltage	24VDC
Lead Acid Battery Type - AGM	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid Typical 5+ Years Life
Lithium Battery Type - LFP	Wide Temp LiFePO4 Lithium Typical 10+ Years Life
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)	8', 11', 14', 17' (2.4, 3.4, 4.3, 5.2m)
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 Powder Coat Steel
Internal Size	48" x 21" x 20" (1219 x 533 x 508mm)
Voltages Available Inside Enclosure	56VDC 5A Regulated, 24VDC 30A Un-Regulated, 12VDC 20A Regulated
Portable Skid	
Construction	Welded Steel, Powder Coat Painted.
Overall Size	48" x 82" (1219 x 2083mm)
Solar Panel Height	63" above deck (1600mm)
Customer Deck Space	18" x 48" (457 x 1219mm)
Stabilizing Lifts (4)	7000lb (3175kg), 15" lift range 2x fixed position lifts 2x outrigger lifts (24" extension)
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 #	Battery Type	Solar Panel Output	Solar Array Size	Battery Capacity	Continuous Power Generation*	Reserve Time	Grid Charge Time*	Skid Weight
RPMS24-720-Skid	AGM	720W	79 x 77"	720Ah	160W	27hr	7hr	1700lb (771kg)
RPMS24-800L-720-Skid	LFP	720W	79 x 77"	800Ah	160W	30hr	7hr	1392lb (631kg)

*6hrs peak sun

*@50% discharge

For further information contact:

Tyconsystems.com

