TYCON Solar®

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 with10-65deg 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**
- **Temporary Security**
- **Temporary Remote Lighting**
- **Surveillance Cameras**
- **Off Grid Power**
- **Emergency Power**
- **Concerts and Festivals**
- **Parking Lots**
- **Agriculture**

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Specifications

Batteries	
Battery Voltage	24VDC
Battery Type	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid
Battery Life	5+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)
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	65 MPH (29 m/sec)
Warranty	3 Years

System Ordering:

Model #	Frame Type	Solar Panel Output	Solar Array Size	12V Battery Capacity	Continuous Power Generation*	Reserve Time	Grid Charge Time*	Trailer Weight	Tongue Weight
RPMS24-360-MINI	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

For further information contact:

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RoHS compliant

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