MOBILE SOLAR
(805) 466-1006
MOBILESOLARPOWER.NET

Rugged Trailer-Based Solar Generators

The M1-Series is the latest in the heavy-class, trailer-mounted solar generators engineered for rapid deployment to loads demanding up to 16kW. The versatile M1 chassis platform supports a wide range of add-on equipment -- towers, optics, sensors, LIDAR, antennas, radios, and tool storage. Available as a pure solar supply or with an optional gas or diesel generator, the M1 Series delivers reliable off-grid power in demanding environments with optional LiFePO4 batteries and cloud-connected remote monitoring configurations.



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Lithium Iron Phosphate

Self Heated / Cold Weather Resilient



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M1-R280LDS

1. REMOTE MONITORING INCLUDED
2. AUTO-START BACK-UP GENERATOR - 30 GAL TANK
3. TANDEM 5,000 LB AXLES (10,000 LB GVWR)
4. 36" OUTRIGGERS WITH SWING-DOWN JACKS
5. TOOL AND POWER CABLE STORAGE TRAY
6. SELF-HEATED LITHIUM IRON PHOSPHATE (LiFePO4 Battery)
7. ADJUSTABLE-HEIGHT BALL COUPLER OR PINTLE HITCH
8. INTEGRATED A-FRAME TOUNGE FOR HIGH CLEARANCE
9. STARLINK MINI FOR REMOTE CONNECTION (OPTIONAL)

MADE IN USA

(805) 466-1006
CALL FOR A QUOTE

M1 SERIES

MOBILE SOLAR GENERATORS






	M1-R260ES	M1-R260LES	M1-R270DS	M1-R280LDS
POWER OUTPUT				
Rated Power	16 kW	16 kW	16 kW	16 kW
Instantaneous Power	33.94 kW	33.94 kW	33.94 kW	33.94 kW
Output Voltage	120/240VAC 60Hz 1-ph	120/240VAC 60Hz 1-ph	120/240VAC 60Hz 1-ph	120/240VAC 60Hz 1-ph
Rated Amps (Instantaneous Amps)	66.6A (50A)	66.6A (50A)	66.6A (50A)	66.6A (50A)
Manufacturer	Outback Power (Radian)	Outback Power (Radian)	Outback Power (Radian)	Outback Power (Radian)
Warranty	5 year	5 year	5 year	5 year
ENERGY STORAGE				
Battery Chemistry	Industrial Steel Case Lead Acid	Lithium Iron Phosphate (LiFePO4)	Industrial Steel Case Lead Acid	Lithium Iron Phosphate (LiFePO4)
Energy Capacity	60 kWh	61.44 kWh	70 kWh	81.92 kWh
Amp-Hour Capacity	1255AH @ 20 hr. rate	1200AH @ 51.2VDC	1464AH @ 20 hr. rate	1200AH @ 51.2VDC
Usable Energy Capacity	80%	100%	80%	100%
Cycle Life: 80% Depth of Discharge	2,000 cycles	6,000 cycles	2,000 cycles	6,000 cycles
Cycle Life: 100% Depth of Discharge	n/a	4,000 cycles	n/a	4,000 cycles
Heated LiFePO4	no	Yes, Heats to 5C for Charging	no	Yes, Heats to 5C for Charging
Communications	n/a	Bluetooth	n/a	Bluetooth
Certified to:	n/a	UN 38.3, Conforms to UL 1642 (Cell) and CE (Cell) Certified	n/a	UN 38.3, Conforms to UL 1642 (Cell) and CE (Cell) Certified
Manufacturer	Industrial Battery Engineering	New Use Energy	Industrial Battery Engineering	New Use Energy
Warranty	5 Year	5 Year	5 Year	5 Year
SOLAR HARVEST				
Max Daily Energy Harvest	30 kWh/day	30 kWh/day	30 kWh/day	30 kWh/day
Average Sunny Day Harvest	24 kWh/day	24 kWh/day	24 kWh/day	24 kWh/day
Qty and Wattage of solar panels	12 x 375 watt (subject to change)	12 x 375 watt (subject to change)	12 x 375 watt (subject to change)	12 x 375 watt (subject to change)
Total Array Watts	4,500 W	4,500 W	4,500 W	4,500 W
Manufacturer and Type	LG Neon mono-crystal	LG Neon mono-crystal	LG Neon mono-crystal	LG Neon mono-crystal
Array Style	Push-button adjustable	Push-button adjustable	Push-button adjustable	Push-button adjustable
Auxiliary Solar Input Capable	Yes, Optional	Yes, Optional	Yes, Optional	Yes, Optional
Warranty	25-year Ltd.	25-year Ltd.	25-year Ltd.	25-year Ltd.
OPTIONAL GENERATOR				
Fuel	Gasoline	Gasoline	Diesel	Diesel
Manufacturer	Honda	Honda	Anderson Industrial Engines	Anderson Industrial Engines
Model	EU3000iS	EU7000iS	SQ10000	SQ10000
Peak Output	7 kW	7 kW	11 kW	11 kW
Rated Output, 80% Load	5.5 kW	5.5 kW	10 kW	10 kW
Auxiliary Fuel Tank	30 gallons	30 gallons	30 gallons	30 gallons
Warranty	3 year	3 year	3 year	3 year
EXTERIOR OUTLETS & INLETS				
120V outlets	2 x 20Amp	2 x 20Amp	2 x 20Amp	2 x 20Amp
120/240V outlets	1 x 30A & 2 x 50A	1 x 30A & 2 x 50A	1 x 30A & 2 x 50A	1 x 30A & 2 x 50A
Twist-lock inlet for shore power or grid	1 x 50A	1 x 50A	1 x 50A	1 x 50A
Main Lug Bussing	1 x Main Out	1 x Main Out	1 x Main Out	1 x Main Out
Auxilary Solar Input	Optional	Optional	Optional	Optional
TRAILER PLATFORM				
Nominal Dimensions (W x L)	7' x 16'	7' x 16'	7' x 16'	7' x 16'
Dimensions, Towing (W x L x H)	8'-6" x 20' x 10'	8'-6" x 20' x 10'	8'-6" x 20' x 10'	8'-6" x 20' x 10'
Dimensions, Fully Deployed (W x L x H)	14'-5" x 20' x 13'	14'-5" x 20' x 13'	14'-5" x 20' x 13'	14'-5" x 20' x 13'
Approximate Curb Weight*	9,000 lbs	6,000 lbs	9,800 lbs	6,500 lbs
Total GVWR	10,000 lbs	10,000 lbs	10,000 lbs	10,000 lbs
Manufacturer	Mobile Solar	Mobile Solar	Mobile Solar	Mobile Solar
Warranty	5 year	5 year	5 year	5 year

*varies based on model configuration

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