

123-SG-900A10

Solar Generator
solar.123e.com/123-SG-900A10



2.88 kW of DC power on a compact canopy: two panels, 9.6 kWh, no engine.



A fixed solar canopy over a compact single-axle trailer: 48 V DC power the moment it is parked.

OVERVIEW

123-SG-900A10 is the simplest way to put 48 V DC power where there is none: two solar panels mounted as a fixed canopy over the battery and controls, on a compact single-axle trailer. There is nothing to unfold and nothing to aim — park it, lower the jacks and connect the load.

The two 490 W panels form a 0.98 kW array that harvests 4.2 kWh on an average day, and below 0.18 kW the sun carries the load indefinitely. That is the territory of monitoring equipment, gateways, sensors and low-power radios: loads that must never go dark and should never need a fuel run.

Output is 48 V DC at up to 60 A, 2.88 kW continuous, set by the charge controller, feeding DC equipment directly with no inverter losses. The 9.6 kWh sealed gel lead-acid bank carries 27 hours at 0.18 kW with no sun at all, and 10 hours at 0.48 kW, with 4.8 kWh usable at the standard 50% reserve and 6.72 kWh at the 30% setting.

Choose it over the three-panel 123-SG-1A10 where the load is lighter and a fast, fixed setup matters more than extra harvest.

FEATURES AND BENEFITS

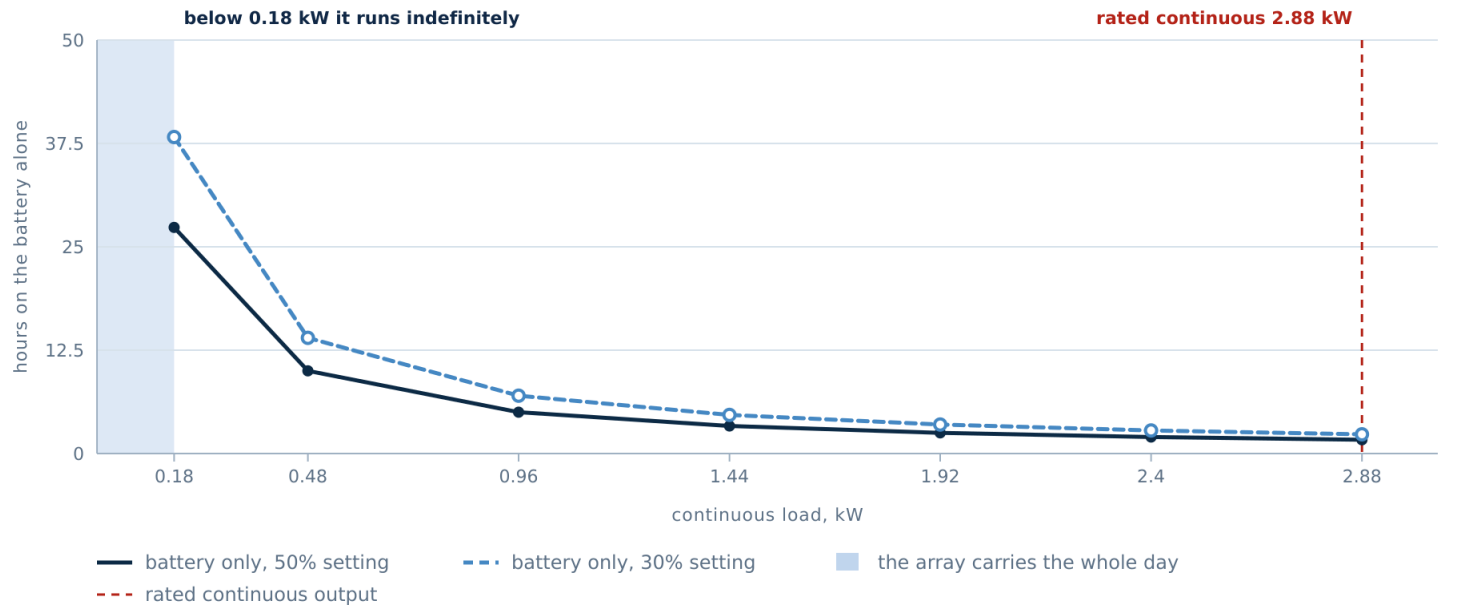
- **Fixed two-panel canopy, 0.98 kW** — Setup is park, lower the jacks, connect the load.
- **48 V DC output, 60 A** — More of the harvest reaches the load.
- **9.6 kWh sealed gel lead-acid bank** — Low-draw monitoring runs unattended.

KEY SPECIFICATIONS

POWER	
Rated continuous output	2.88 kW
DC output voltage	48 V
DC output current	60 A
Maximum discharge	5.88 kW
ENERGY STORAGE	
Battery technology	Sealed gel lead-acid
Arrays installed	1
Total stored energy	9.6 kWh
Usable stored energy at 50%	4.8 kWh
Usable stored energy at 30%	6.72 kWh
Silent runtime at 1.44 kW	3.3 hours
SOLAR	
Array rated power	0.98 kW
Solar panels	2 x 490 W
Daily solar production	4.2 kWh/day
Maximum PV input	3120 W
Load covered by solar alone	0.18 kW
MECHANICAL AND SITE	
Trailer	1-axle, towable

PERFORMANCE ACROSS THE LOAD RANGE

How long the battery carries the load on its own. Below 0.18 kW the array carries the whole day and the machine runs indefinitely. Above it, these are the hours the bank lasts with no sun and nothing charging, at the standard 50% setting and at the 30% setting.



LOAD, CONTINUOUS	BATTERY ONLY	DAILY DRAW	AFTER SOLAR	DAYS OF AUTONOMY
0.18 kW · solar break-even	27.34 h	4.2 kWh	covered	indefinite
0.48 kW	10 h	11.5 kWh	7.3 kWh	0.66 days
0.96 kW	5 h	23 kWh	18.8 kWh	0.25 days
1.44 kW	3.33 h	34.6 kWh	30.3 kWh	0.16 days
1.92 kW	2.5 h	46.1 kWh	41.9 kWh	0.11 days
2.4 kW	2 h	57.6 kWh	53.4 kWh	0.09 days
2.88 kW	1.67 h	69.1 kWh	64.9 kWh	0.07 days

Every load runs continuously and the day is 24 hours: daily draw is the load × 24 h. Solar is a daily energy offset, not an instantaneous power match.