



Ark

FLATPACK SOLAR GENERATOR

INTRODUCTION

Unique Concept: Integrated Solar Power System

The AFSG is 'all in one' solar power system. Solar module, battery bank modules, solar inverter and charger all together drive a unique inbuilt solar power system. AFSG was totally new designed to address the current market need and energy-storage shortcomings of off-grid products.



Simple And Quick Installation

The flat-packed cabin design makes it easy to transport and it's pre-installed structure to realize plug and play. Ideal for a wide range applications from normal daily use to emergency backup in any remote and rural area with rich sunlight.



Convenient Maintenance System

The AFSG is designed to lower the maintenance cost. Due to the unique independent modular system, all parts are placed in separated module, it's very easy to maintenance the core part of the AFSG. The cabinet can hold up to 48 units 9600 Ah maintenance-free lead sealed acid batteries.



ADVANTAGES

ASFG Advantages	Innovative Battery Solution
<p data-bbox="92 376 608 421">Innovative All-in-one Design</p>	<p data-bbox="837 376 1410 421">Back-up power for emergencies</p>
<p data-bbox="71 465 767 645">Interaged with solar panels, inverter, battery, charger and DC/AC SPD protections in one 20'SOC group. One group consists of 3 panel modules and 1 battery module.</p>	<p data-bbox="821 465 1509 741">AFSG is designed to be flexible, due to its modularity, you can combined several groups together to increase its capacity to store energy. One module holds up to 18kw, 3200Ah.</p>
<p data-bbox="92 853 619 898">Maximized Energy Protection</p>	<p data-bbox="837 853 1362 898">Good temperature resistance</p>
<p data-bbox="71 943 762 1211">MPP tracking technology offers wide input voltage, stable charging voltage and current, reduce the investment of solar panels, can save up to 30% panels compared with PWM solar charger.</p>	<p data-bbox="821 943 1501 1211">With its high and low temperature overload protection circuit design, the batteries can bear extreme environment, as its operating range is from -20 degree to +55 degree.</p>
<p data-bbox="92 1563 523 1608">Pure Sine Wave Inverter</p>	<p data-bbox="837 1563 1374 1608">Long battery life and shelf life</p>
<p data-bbox="71 1653 783 1816">Low frequency transformer allows to withstand high inrush load current, supports fans, pump, refrigerator, TV, air conditioner, lamp etc</p>	<p data-bbox="821 1653 1509 1921">Maintenance-free sealed lead-acid batteries will charge and discharge for 2800 cycles (under normal use) with an expected life of 10 to 12 years. And it discharge very slow under full charged conditions even after being stored for two years.</p>

SPECIFICATION

SYSTEM RECOMMENDATION ARK FLATPACK SOLAR GENERATOR

Solar Panels	6000W (24 pieces) x 3 module
Maintenance-free sealed lead-acid batteries bank	12V3200Ah (16 x 200Ah)

INVERTER DATA

INPUT(DC)	Inverter Rating Power	5000W
	Charge Type	MPPT
INPUT(DC)	Max. PV Input	14200W/ 28400W
	PV Input Voltage	320V~450V
	Recommended Input Voltage	330V
	Max. Solar Charging Current	50A/ 100A
GRID INPUT (AC)	Nominal Voltage	110/220/230/240 ±15% (Special is available)
	Max. PV Input	14200W/ 28400W
	PV Input Voltage	320V~450V
SYSTEM OUTPUT (DC)	Output Voltage	110/220/230/240 ±1% (Special is available)
	Frequency/ Range	50/ 60Hz ±1%
	Peak Efficiency	≥ 85%
	Overload Protection	105-110%, 600s; 110-125%, 60s; > 125%, 1s
	Pure Sine Wave	≥ 85%
BATTERY	Related Battery Voltage	MPPT
	Battery Float Charge Voltage	14200W/ 28400W
	PV Input Voltage	320V~450V
	Recommended Input Voltage	330V
	Max. Solar Charging Current	50A/ 100A

* Specification are subject to change without notice

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