

ALPHA ESS 300W/500W/1000W ALL IN ONE



CHEAPER, cheaper, cheaper
more than tubular battery
inverter system

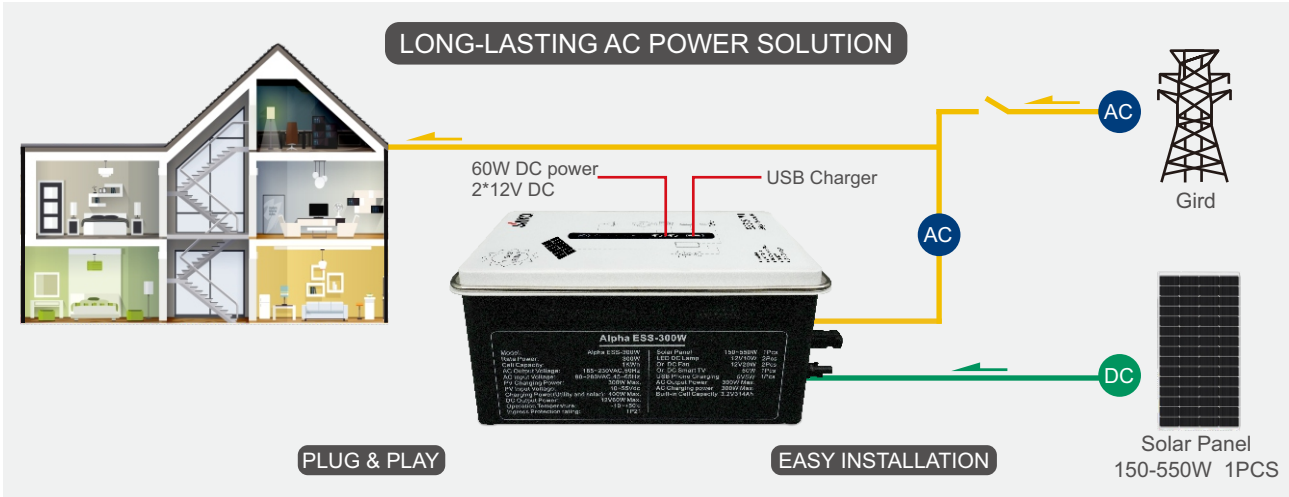
More than 10 years life time,
buy 1 time get 10 years free
electricity

With 12V DC output and
USB charger

Can power both AC load and
DC load

With 80A AC charger and
80A MPPT Solar charger

All in one, build in
lithium battery



We Can Provide All Kinds Of Solar Solutions According To Your Demands.

Energy Storage System

TECHNICAL PARAMETER

SPECIFICATION	MODEL	Alpha ESS-300W	Alpha ESS-500W	Alpha ESS-1000W
Inverter / Charger				
Rated AC Output Power		300W	500W	1000W
Output Voltage Waveform		Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Output Voltage		185~230VAC 50Hz	185~230VAC 50Hz	185~230VAC 50Hz
Low DC Warning Point		≤19%	≤19%	≤19%
Low DC Cut-off Voltage		2.9Vdc	2.9Vdc	5.8Vdc
Low DC Warning Return Voltage		>20%	>20%	>20%
Charging Power(Utility and solar together)		400W Max.	500W Max.	800W Max.
Bulk Charging Voltage		3.6Vdc	3.6Vdc	7.2Vdc
Float Charging Voltage		3.5Vdc	3.5Vdc	7.0Vdc
AC Input				
Nominal Input Voltage		230Vac	230Vac	230Vac
Low Loss Voltage		90Vac ± 7	90Vac ± 7	90Vac ± 7
Low Loss Return Voltage		100Vac ± 7	100Vac ± 7	100Vac ± 7
High Loss Voltage		280Vac ± 7	280Vac ± 7	280Vac ± 7
High Loss Return Voltage		270Vac ± 7	270Vac ± 7	270Vac ± 7
Max. AC Input Voltage		300Vac	300Vac	300Vac
Nominal Input Frequency		45~65Hz	45~65Hz	45~65Hz
AC Charging Power		300W Max.	500W Max.	800W Max.
Solar Input				
Nominal PV Voltage		30Vdc	30Vdc	38Vdc
PV Array MPPT Voltage Range		10Vdc~55Vdc	10Vdc~55Vdc	13Vdc~55Vdc
Max. PV Array Open Circuit Voltage		56Vdc	56Vdc	56Vdc
Solar Charging Power		300W Max.	300W Max.	550W Max.
Lithium Iron Battery				
Capacity		896Wh	1004.8Wh	2009.6Wh
Nominal Battery Voltage		3.2Vdc	3.2Vdc	6.4Vdc
Typical Capacity		280Ah	314Ah	314Ah*2
Max.Charge Current		130A	220A	220A
Max.Discharge Current		130A	220A	220A
Operation Voltage Range		2.9Vdc~3.6Vdc	2.9Vdc~3.6Vdc	5.8Vdc~7.2Vdc
Operation Temperature		-10°C~+50°C		
DC Output				
DC Output Power		DC12V 60W Max.		
DC Output Socket		1 pcs 5V1A USB charger, 2 pcs 12V2.5A DC Power JACK 5.5*2.1mm		
Display Function				
LED Indicator		4 pcs SOC indicators, 1 pcs working status indicators		
Protection				
Protection		Overcharge protection、Overdischarge protection、Overcurrent protection、Shortcircuit protection、Overtemperature protection		
Ambient				
Noise(dB)		<40dB (1 meter)		
working Temperature		-10°C~+50°C		
Humidity		5~95% (no condensation)		
Sea Level(m)		≤2000		
Dimension				
L×W×H (products size)		312*215*146mm	337*215*146mm	422*295*160mm
L×W×H (package size)		410*272*226mm	438*262*220mm	532*337*325mm
Weight(NW Kg)		9.9Kg	10.8Kg	20.9Kg
Weight(GW Kg)		11.1Kg	12.0Kg	22.7Kg

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