

All In One Solar Generator ECHO Series



Features



**Powerful Battery
Manage System**



≥8000 Cycles



**Integrated design, integrating
battery and inverter**



Safe And Long Lifespan



**Flexible And Convenient
Installation**



Reliable Performance

Datasheet

Model	ECHO-8		ECHO-16	
System Specification				
Nominal Output Power		4000VA		10000VA
AC Output Frequency and Voltage		50/60Hz; L+N+PE; 220/230Vac		
Grid Type		Single-phase		
Energy Range		8kWh		16kWh
Maximum AC charging current		80A		150A
Maximum PV charging current		100A		150A
Battery Operating Voltage		22.4-28 V		44.8-56 V
Battery Type		LiFePO4		
Altitude		≤1000m		
Protection Level		IP20		
Installation		Floor Mounting(It is movable with casters)		
Warranty Period		Two years(0.5C charge/Discharge @25°C, 80%DOD)		
Inverter Technical Specification				
Max. PV Input Power		5000W		2*6500W
Max. PV Input Current		15A		150A
Max. PV Charge Current		100A		150A
Rated PV input Voltage		60-500VDC		90-500VDC
MPPT Voltage Range		120-500VDC		360-430VDC
No. of MPPT Tracker		1		2
Battery Technical Specification				
Nominal Capacity		314Ah		
Nominal Voltage		25.6V		51.2V
Recommend Charge/Discharge current		100A		
Max. continuous charge/Discharge current		200A		
Peak Charge/Discharge current(@10s)		210A		
Display type		LED		
Working Temperature Range(Charge)		0°C ~ +55°C		
Working Temperature Range(Discharge)		-10°C ~ +55°C		
Storage Temperature Range(One month)		-10°C ~ +45°C		
Storage Temperature Range(Six months)		-10°C ~ +35°C		
Cycle Life(@25°C)		≥8000 Cycles		
Protection		Built-in smart BMS		
Certification		UN38.3		
Product Dimension Approximate(L*W*H)		540*270*770mm (840mm With casters)±5mm		830*280*1010mm±10mm
Package Dimension Approximate(L*W*H)		650*320*920mm		880*320*1155mm±10mm
Product Weight Approximate		72.5kg±1kg		185kg±1kg
Package Weight Approximate		82.5kg±1kg		198kg±1kg

*Battery cell lifespan: 10 years

*Test conditions: 0.5C charge/discharge, @25°C, 80% DOD; product specifications are subject to change without prior notice.

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Features



PV charge, inverter, BMS and battery all in one design, convenient use



Pure Sine Wave Output



4 DC5.5*2.1, 12V output port with maximum power 100W, which can meet the use of 12V DC equipment



4 USB-A port outputs, convenient for charging mobile phones



1200W PV MPPT Charging Module, LiFePO4 Battery Safe And Long Lifespan



LCD human-computer interaction, friendly and intuitive

Datasheet

Model	ECHO-3		ECHO-4
System Specification			
AC Input Frequency and Voltage	45-65Hz; 90~280V±5V; L+N+PE		
Nominal Output Power	1500VA	2000VA	
AC Output Frequency and Voltage	50-60Hz; L+N+PE; 220/230Vac		
Grid Type	Single-phase		
Rated Battery Energy	3.0kWh	4.0kWh	
Max. Charging Current	140A	150A	
Battery Operating Voltage	22.4-28 V		
Battery Type	LiFePO4		
Altitude	≤2000m		
Protection Level	IP20		
Installation	Wall-mounted Installation		
Warranty Period	Two years(0.5C charge/Discharge @25°C, 80% DOD)		
Inverter Technical Specification			
Max. PV Input Power	1200W		
Max. PV Input Current	15A		
Max. PV Charge Current	100A		
MPPT Voltage Range	18-110VDC		
No. of MPP Tracker	1		
Battery Technical Specification			
Nominal Capacity	230Ah	314Ah	
Nominal Voltage	12.8V	12.8V	
Recommend Charge/Discharge Current	115A	165A	
Max. Continuous Charge/Discharge Current	130A	200A	
Peak Charge/Discharge current(@10s)	150A	210A	
DC Output Specification			
DC-5521	4*12V Total 100W		
USB Type-A	4*5V 2A		
Other Specification			
Working Temperature Range(Charge)	0 ~ +55°C		
Working Temperature Range(Discharge)	-10°C ~ +50°C		
Storage Temperature Range(One Month)	-10°C ~ +45°C		
Storage Temperature Range(Six Months)	-10°C ~ +35°C		
Cycle Life (@25°C)	≥8000 Cycles		
Display	LCD+LED		
Protection	Built-in smart BMS		
Certification	UN38.3 EMC		
Product Dimension	500*400*180mm±5mm	550*450*180mm±5mm	
Package Dimension	605*455*235mm±5mm	605*505*235mm±5mm	
Product Weight Approximate	32.5kg±1kg	40.5kg±1kg	
Package Weight Approximate	35.5kg±1kg	43kg±1kg	

*Battery cell lifespan: 10 years

*Test conditions: 0.5C charge/discharge, @25°C, 80% DOD; product specifications are subject to change without prior notice.

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Features



Grade A Cell



≥8000 Cycles



Plug And Play



Safe And Long Lifespan



Installation-free



Reliable Performance

Datasheet

Model	ECHO-1	ECHO-2
System Specitification		
AC Specitification		
Nominal Output Power	500W	1000W
AC Iutput Frequency and Voltage	45-65Hz; L+N; 90~280Vac	
AC Output Frequency and Voltage	50Hz; L+N; 220/230Vac	
Grid Type	Single-phase	
PV Specitification		
Max. PV Input Power	300W	550W
Max. PV Input Current	10A	15A
Rated PV input Voltage	11-55VDC	11-55VDC
Battery Specitification		
Nominal Capacity	314Ah	
Battery Type	LiFePO4	
Energy Range	1kWh	2kWh
Maximum Charging Current	140A	160A
Battery Operating Voltage	3-3.65 V	6-7.3 V
Cycle Life(@25°C)	≥8000 Cycles	
Depth of discharge(DOD)	90%	
Other Specitification		
Operating Temperature Range	-10°C ~ +40°C	
Storage Temperature	-15°C ~ +60°C	
Protection Level	IP20	
Altitude	≤3000m	
Warranty Period	Two years(0.5C charge/Discharge @25°C, 80%DOD)	
Certification	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1	
Product Dimension(L*W*H)	230*187*307mm±5mm	284*280*307mm±5mm
Package Dimension	370*290*247mm±5mm	370*340*344mm±5mm
Product Weight Approximate	13kg±1kg	21.2kg±1kg
Package Weight Approximate	14kg±1kg	22.5kg±1kg

*Battery cell lifespan: 10 years

*Test conditions: 0.5C charge/discharge, @25°C, 80% DOD; product specifications are subject to change without prior notice.

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