

# Stackable Series OFF-GRID ENERGY STORAGE SYSTEM



Lithium iron phosphate battery, safer



Supports up to 15 units in parallel



Plug and play



3000 cycles



## Stackable Series Product Introduction

MODEL	ES5.12
Rated Voltage	51.2Vdc
Number of battery strings	16strings
Rated Capacity	100Ah
Rated Energy	5120Wh
Number of parallel machines	15parallel
Cell Type	LiFePO4
<b>Charge and discharge parameters</b>	
Over - charge Protection Voltage	58.4Vdc
Over - discharge Protection Voltage	43.2Vdc
Rated Charge Current @RT	50A
Max Charge Current@RT	100A
Over Charge Protection Release	Discharge/Voltage recovery
Operating Temp Range	discharge (-20~55°C), charge (0~55°C)
Output Voltage Range	43.2 - 58Vdc
Rated Discharge Current @RT	100A
Max Discharge Current@RT	105A
Over Discharge Protection Release	Charging/Voltage recovery
<b>Battery protection parameters</b>	
Over - charge protection	3700mV@1s
Over - charge protection release	3380mV
Over - charge release method	Cell 3380mV or Discharge
Over - discharge protection	2800mV@5s
Over - discharge protection release	2700mV
Over - discharge release method	Cell 2950mV or Charging
Over current protection (CHG)	110A@1s/210A@3s
Over current protection (DISCHG)	150A@20ms/210A@3ms
Over current release method (CHG)	Remove the charger
Over current release method (DISCHG)	Cut off loads
Over temperature	Protection @70°C/Protection Release@50°C
Over temperature	Protection @85°C/Protection Release@64°C
<b>Parameters</b>	
Communication	CAN/RS485
IP level	IP30
Operating Temperature Range	discharge (-20~55°C), charge (0~55°C)
Storage Temperature	-15°C to 60°C
Standard Configuration	PV input line speed (1 m)
Dimension(unit) L*W*H(mm)	635*480*180
Weight (N.W.)	48kgs

Models	SIF6000 - 24812H	SIF11K - 24816H
Rated load power	6000W	11000W
Parallel Function	≤12 units in parallel, Parallel output380AC	≤6 units in parallel, Parallel output380AC
MAX PV Array Power	6500W	5500W*2=11KW
MPPT input interface	2way	
Battery rated voltage	48VDC	48VDC
Lithium battery activation	Mains&Photovoltaic charging activation	
<b>AC INPUT</b>		
Voltage	230VAC	
Selectable Voltage Range	170 - 280VAC (PC)/90 - 280VAC (Home Appliances)	
Frequency Range	50Hz / 60Hz (Auto detection)	
<b>AC OUTPUT</b>		
AC Voltage Regulation (Batt.Mode)	230VAC±5%	
Surge power	12000W	22000W
Transfer Time	10ms (PC) /20ms (Home Appliances)	
<b>BATTERY &amp; AC CHARGER</b>		
Battery Voltage	48VDC	48VDC
Floating Charge Voltage	54VDC	54VDC
Overcharge Protection	61VDC	61VDC
Maximum charge current	80A	120A
<b>SOLAR CHARGER</b>		
MAX PV Array Power	6500W	5500W*2=11KW
MPPT Range@Operating Voltage	55 - 450VDC	
Maximum PV Array Open Circuit Voltage	450VDC	
Maximum Charging Current	120A	160A
Maximum Efficiency	99%	
<b>Parameter</b>		
Communication	RS485	
IP level	IP20	
Certificate	CE	
Operating Temperature	-10°C to 55°C	
Storage Temperature	-15°C to 60°C	
Dimension.D*WH(mm)	450*300*130	
Net Weight (kgs)	9.6	
Optional Configuration	WIFI module	

- The ES series stackable lithium batteries are new products developed for household energy storage systems.
- They feature integration, miniaturization, lightweight, intelligence and standardization.
- The batteries have high safety and a long service life, and are widely used in fields such as indoor distribution stations, integrated base stations, household photovoltaic energy storage, and distributed power supply.