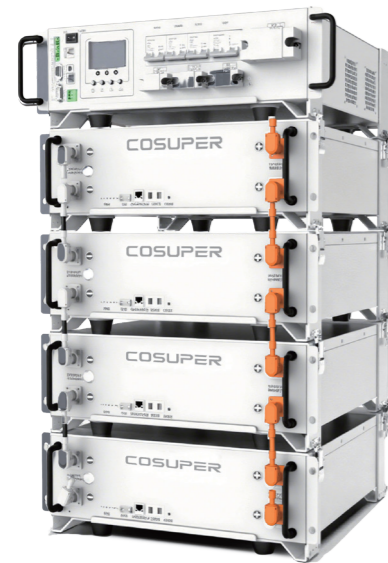


Rack-mount Series OFF-GRID ENERGY STORAGE SYSTEM



Lithium iron phosphate battery, safer



Supports up to 6 units in parallel



Plug and play



3000 cycles



Rack-mount 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
Charge and discharge parameters	
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
Battery protection parameters	
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
Parameters	
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
Rated load power	6000W
parallel function	≤12 units in parallel, Parallel output 380AC
MAX PV Array Power	6500W
MPPT input interface	2way
Battery rated voltage	48VDC
Lithium battery activation	Mains&Photovoltaic charging activation
AC INPUT	
Voltage	230VAC
Selectable Voltage Range	170 - 280VAC (PC)/90 - 280VAC (Home Appliances)
Frequency Range	50Hz / 60Hz (Auto detection)
AC OUTPUT	
AC Voltage Regulation (Batt.Mode)	230VAC±5%
Surge power	12000W
Transfer Time	10ms (PC)/20ms (Home Appliances)
BATTERY & AC CHARGER	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	61VDC
Maximum charge current	80A
SOLAR CHARGER	
MAX PV Array Power	6500W
MPPT Range@Operating Voltage	55 - 450VDC
Maximum PV Array Open Circuit Voltage	450VDC
Maximum Charging Current	120A
Maximum Efficiency	99%
Parameter	
Communication	RS485
IP level	IP20
Certificate	CE
Operating Temperature	-10°C to 55°C
Storage Temperature	-15°C to 60°C
Dimension.D*W*H(mm)	450*300*130
Net Weight (kgs)	9.6
Optional Configuration	WiFi module

- Automatic DC/AC power switching: Millisecond-level switching, supporting Uninterruptible Power Supply (UPS) and 7×24-hour uninterrupted power supply.
- System integration: Maximum Power Point Tracking (MPPT) charger controller + lithium battery pack with Battery Management System (BMS) + inverter + battery management system, featuring energy management and energy efficiency management functions.
- Solar energy adaptation: Connected to solar panels to store solar energy during the day; the stored electricity is used before sunrise in the early morning or after sunset in the evening.