

ENERGY STORAGE SYSTEM

SU-SERIES



- (R)** INVERTER MODE
- (G)** PV MODE
- (B)** UTILITY MODE


Built-in Lithium battery
automatic activation


BMS protection


Integrated design


Receptacle


RGB lights


Universal wheel


Constant voltage technology
protects the circuit


Dustproof

»» Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Integrated design
- Built-in 120A MPPT Solar charge:
max 6200W(for 4.2KW); max 6500W(for 6.2KW)
- High PV input voltage range(60~ 500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

»» Product Data Sheet

MODEL	SU-4.2KW PLUS-100AH/200AH	SU-6.2KW PLUS-100AH	
Phase			
Maximum PV Input Power	6200W	6500W	
Rated Output Power	4200W/4200VA	6200W/6200VA	
Maximum Solar Charging Current	120A		
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
Start-up Voltage / Initial Feeding Voltage	60VDC/90VDC		
MPPT Voltage Range	60~450VDC		
Maximum Input Current	1/18A	1/22A	
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	18.2A	27.0A	
Power Factor	>0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	4200W	6200W	
Maxium Main Load	4200W	6200W	
Maxium Second Load(battery mode)	1400W	2067W	
Maxium Load Cut Off Voltage	26VDC	52VDC	
Maxium Load Return Voltage	27VDC	54VDC	
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Frequency Range	49~51±1HZ		
Maximum AC Input Current	24.7A	36.4A	
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
MPPT Voltage Range	60~450VDC		
Maximum Input Current	1/18A	1/22A	
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	24VDC		48VDC
Maximum Solar Charging Current	120A	140A	120A
Maximum AC Charging Current	100A	100A	100A
Maximum Solar+AC Charging Current	120A	140A	120A
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	60~450VDC		
Maximum Input Current	1/18A	1/22A	
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	18.2A	27.0A	
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	24.7A	36.4A	
Maximum AC Charging Current	100A		

MODEL	SU-4.2KW PLUS-100AH/200AH		SU-6.2KW PLUS-100AH
BATTERY			
MODEL	25.6V100AH	25.6V200AH	48V100AH
Normal charging voltage	29.2V	29.2V	54.75V
Maximum charging current	100A(Recommended)	100A/200A (Recommended 100A)	100A(Recommended)
Discharge termination voltage	20V	20V	37.5V
Recommended discharge termination voltage	22.4V	22.4V	42V
Maximum discharge current	100A	100A/200A	100A
Single cell charging overvoltage protection	3.65V	3.65V	3.65V
Overvoltage protection for the whole battery	29.2V	29.2V	54.75V
Low voltage protection for single cell discharge	2.5V	2.5V	2.5V
Low voltage protection for whole group discharge	20V	20V	37.5V
Charge overcurrent protection	110A	110A/220A	110A
Discharge overcurrent protection	110A	110A/220A	110A
BMS Features	High accuracy cell level voltage, current measuring Over-charge, over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell level active equalization Multiple communication type Parallel connect function		
Working temperature	-20℃~+65℃		
Storage temperature	0℃~+65℃		
GENERAL			
PHYSICAL			
Dimension,D*W*H(mm)	701*441*231		
Cartoon Dimension,D *W *H(mm)	800*530*340		
Net Weight (kgs)	42KG	59 KG	58 KG
Gross Weight(kgs)	44.7KG	61.7KG	60KG
INTERACE			
Communication Port	RS232/RS485/WIFI/GPRS		
ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
STANDARD			
Compliance Safety	CE UN38.3;MSDS		