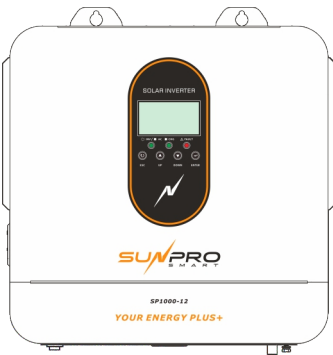


CML Series [PV30-160Vdc]

1/2KW PV30-160Vdc

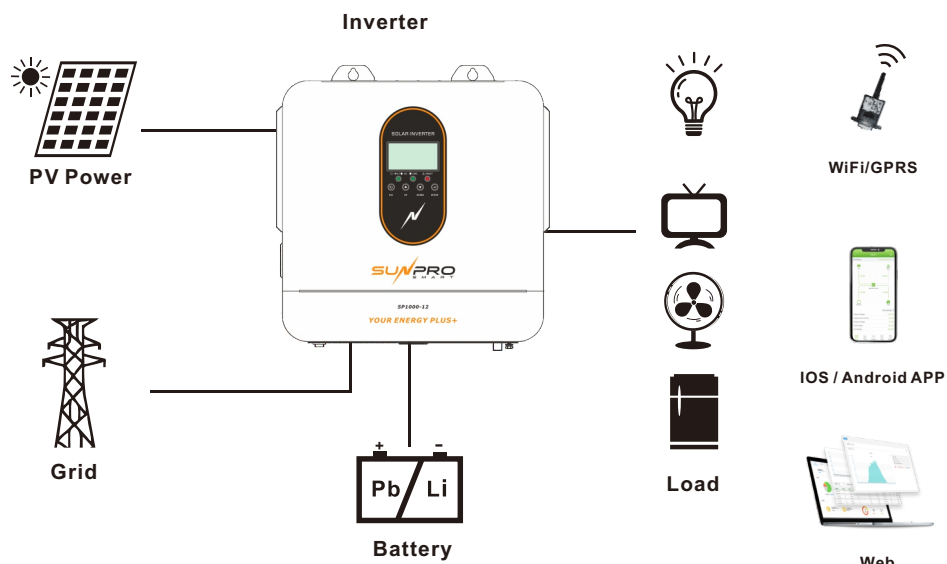
Features



- Lithium battery activation by PV & Utility
- Pure Sine Wave
- PV Input 160Vdc Max
- Built-in MPPT 40A
- Detachable dust cover for harsh environment
- Support multiple output priority: UTL,SOL,SBU
- EQ function to optimize battery performance and extend lifecycle



System Diagram



Technical Data

MODEL	SP1000-12	SP2000-24
Capacity	1000VA/1000W	2000VA/2000W
Parallel Capacity	NO	NO
Lithium Battery Activation	NO	NO
WIFI Optional	NO	NO
INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer); 90-280VAC(For Home Appliances)	
Frequency	50/60 Hz (Auto sensing)	
OUTPUT		
Nominal Voltage	220/230VAC±5%	
Surge Power	2000VA	4000VA
Frequency	50/60 Hz	
Waveform	Pure Sine wave	
Transfer Time	10ms(For personal Computer); 20ms(For Home Appliances)	
Peak Efficiency (PV to BAT)	96%	
Peak Efficiency (Battery to INV)	93%	
Overload Protection	5s@ > =140% load; 10s@100%~140% load	
Crest Factor	3:1	
Admissible Power Factor	0.6~1 (inductive or capacitive)	
BATTERY		
Battery Voltage	12Vdc	24V
Floating Charge Voltage	13.5Vdc	27V
OverCharge Protection	15.5Vdc	31V
Charging Method	CC/CV	
Solar Charger & AC Charger		
Solar Charger TYPE	MPPT	
Max.PV Array Power	600W	1200W
Max. PV Array Open Circuit Voltage	160VDC	
PV Array MPPT Voltage Range	30VDC~160VDC	
Max. Solar Input Current	30	
Max. Solar Charge Current	40A	40A
Max. AC Charge Current	40A	40A
Max. Charge Current(AC+PV)	80A	80A
PHYSICAL		
Dimensions, D x W x H(mm)	358x295x105	
Package Dimensions, DxWxH(mm)	384*339*174	
Net Weight (Kgs)	3.5	3.8
ENVIRONMENT		
Operating Temperature Range	-10°C ~ 55°C	
Storage temperature	-15°C ~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Ingress Protection	IP21	

Product specifications are subject to change without further notice.

BIS Series [PV30-500Vdc]

1.5 / 2.5/3.5KW 220V / 230Vac Output

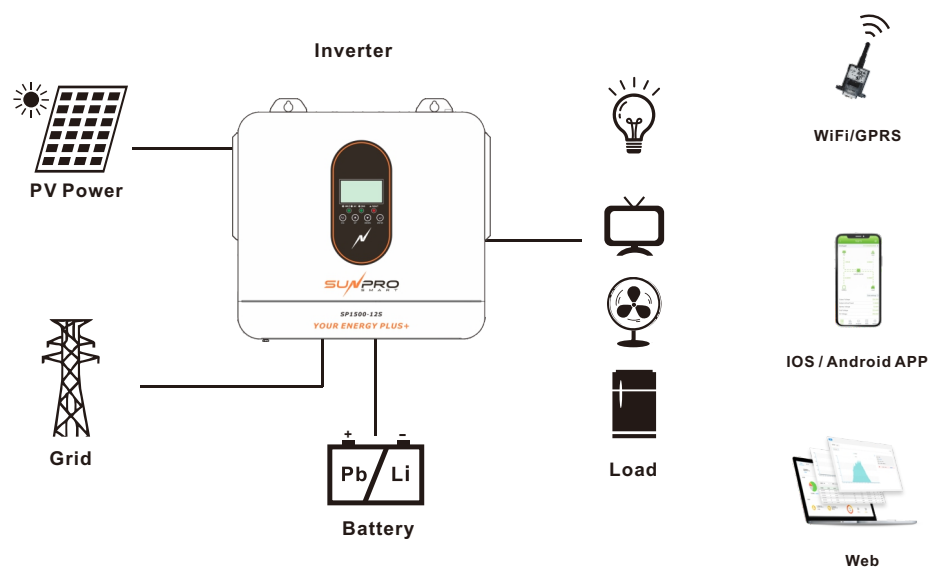
Features



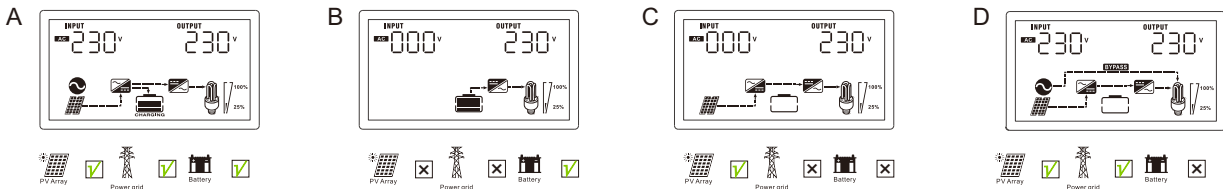
- Lithium battery activation function, which can be triggered by PV
- Pure Sine Wave
- PV Input 500Vdc Max
- Built-in MPPT 60A-100A
- Detachable dust cover for harsh environment
- Wifi remote monitoring optional
- Support multiple output priority: UTL,SOL,SBU,SUB
- EQ function to optimize battery performance and extend lifecycle



System Diagram



Working Mode



Technical Data

MODEL	SP1500-12S		SP1500-12N		SP1500-24S		SP1500-24N		SP2500-24S		BIS2500-24N		SP3500-24S		SP3500-24N	
Capacity			1500VA/1500W				1500VA/1500W				2500VA/2500W				3500VA/3500W	
Parallel Capability			NO				NO				NO				NO	
Lithium Battery Activation	YES(By PV)		NO		YES(By PV)		NO		YES(By PV)		NO		YES(By PV)		NO	
Lithium battery Communication			NO				NO				NO				NO	
INPUT																
Nominal Voltage			230VAC													
Acceptable Voltage Range			170-280VAC(For personal Computer);90-280VAC(For Home Appliances)													
Frequency			50/60 Hz (Auto sensing)													
OUTPUT																
Nominal Voltage			220/230VAC±5%													
Rated Power			1500VA/1500W				1500VA/1500W				2500VA/2500W				3500VA/3500W	
Battery Mode Power			1200VA/1200W				1200VA/1200W				2500VA/2500W				3000VA/3000W	
Surge Power			3000VA				3000VA				5000VA				7000VA	
Frequency			50/60 Hz													
Waveform			Pure Sine wave													
Transfer Time			10ms(For personal Computer);20ms(For Home Appliances)													
Peak Efficiency (PV to INV)			96%													
Peak Efficiency (Battery to INV)			93%													
Overload Protection			5s@ > = 140% load; 10s@100%~140% load													
Crest Factor			3:1													
Admissible Power Factor			0.6~1 (inductive or capacitive)													
BATTERY																
Battery Voltage			12Vdc										24Vdc			
Floating Charge Voltage			13.5Vdc										27Vdc			
OverCharge Protection			16.5Vdc										32Vdc			
Charging Method			CC/CV													
SOLAR CHARGER & AC CHARGER																
Solar Charger TYPE			MPPT													
Max.PV Array Power			2000W				2000W				3000W				4000W	
Max. PV Array Open Circuit Voltage			500VDC													
PV Array MPPT Voltage Range			30VDC~500VDC													
Max. Solar Input Current			15A													
Max. Solar Charge Current			100A				60A				100A				100A	
Max. AC Charge Current			60A				60A				60A				60A	
Max. Charge Current(AC+PV)			100A				60A				100A				100A	
PHYSICAL																
Dimensions, D x W x H(mm)			330*278*98													
Package Dimensions, D x W x H(mm)			400*365*174													
Net Weight (Kgs)			3.8				3.8				3.95				3.95	
Communication Interface			RJ45 For WiFi													
ENVIRONMENT																
Operating Temperature Range			-10°C to 55°C													
Storage temperature			-15°C~ 60°C													
Humidity			5% to 95% Relative Humidity (Non-condensing)													
Ingress Protection			IP21													

Product specifications are subject to change without further notice.

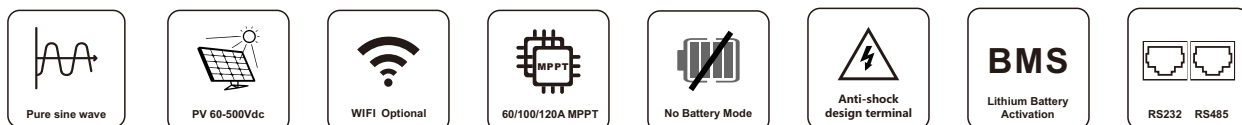
BIS Series [PV 60-500Vdc]

1.5 / 2.5 / 3.5 / 5.5 / 6.2KW 220V / 230Vac Output

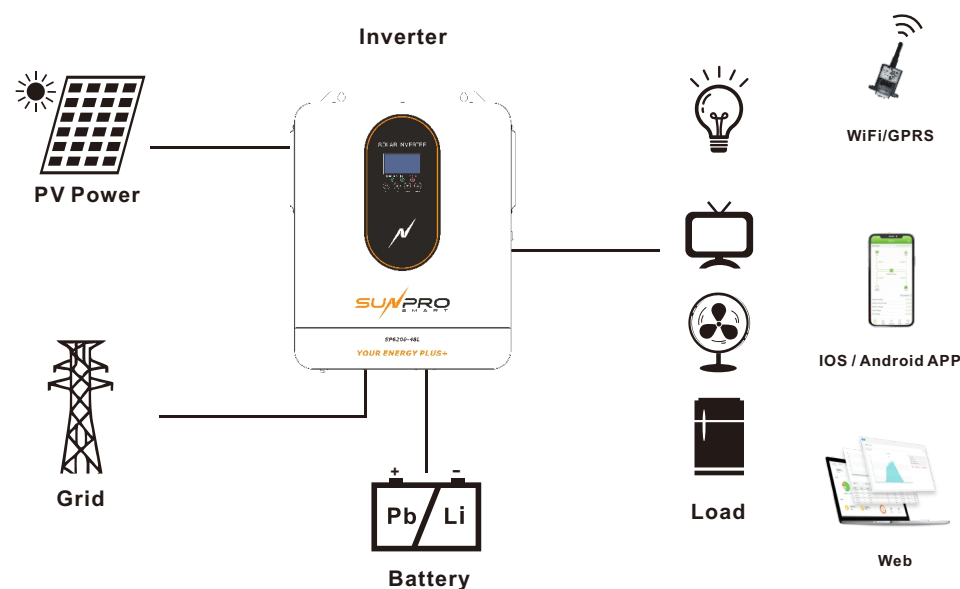


Features

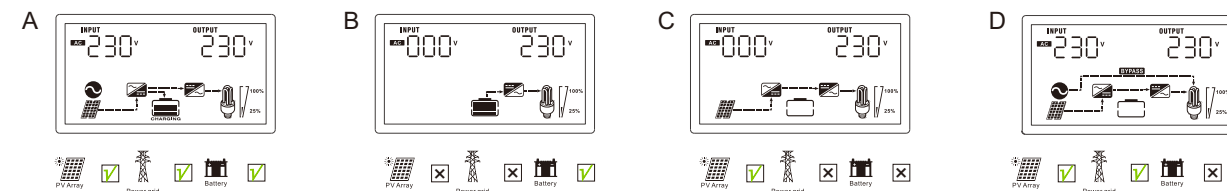
- Lithium battery activation function by PV or Utility
- Compatible work with lifepo4 battery via Rs485
- Pure sine wave
- Power factor 1.0
- PV input Voltage 60Vdc-500Vdc
- Built-in MPPT 60A / 100A / 120A
- Capable to work without battery
- Detachable dust cover for harsh environment
- WIFI remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU, SUB
- EQ function to optimize battery performance and extend lifecycle



System Diagram



Working Mode



Technical Data

MODEL	BIS1500-24L	BIS2500-24L	BIS3500-24L	BIS5500-48L	BIS6200-48L
Capacity	1.5KVA/1.5KW	2.5KVA/2.5KW	3.5KVA/3.5KW	5.5KVA/5.5KW	6.2KVA/6.2KW
Parallel Capability	NO	NO	NO	NO	NO
Lithium Battery activation	YES (By PV only)		YES (By PV or Utility)		
Lithium Battery communication	YES(RS485)				
Built-in WIFI	Optional				
INPUT					
Nominal Voltage	230VAC				
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)				
Frequency	50/60 Hz(Auto sensing)				
OUTPUT					
Nominal Voltage	220/230VAC±5%				
Surge Power	3000VA	5000VA	7000VA	11000VA	12400VA
Frequency	50/60Hz				
Waveform	Pure Sine wave				
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)				
Peak Efficiency(PV to INV)	96%				
Peak Efficiency(Battery to INV)	93%				
Overload Protection	5s@> =140% load; 10s@110%~140% load				
Crest Factor	3:1				
Admissible Power Factor	0.6~1 (inductive or capacitive)				
BATTERY					
Battery Voltage	24VDC	24VDC	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	27VDC	27VDC	54VDC	54VDC
OverCharge Protection	33VDC	33VDC	33VDC	63VDC	63VDC
Charging Method	CC / CV				
SOLAR CHARGER & AC CHARGER					
Solar Charger Type	MPPT				
Max.PV Array Power	2000W	3000W	4000W	5500W	6500W
Max.PV Array Open Circuit Voltage	500VDC				
PV Array MPPT Voltage Range	60VDC~500VDC				
Max.Solar Input Current	15A	15A	15A	18A	27A
Max.Solar Charge Current	60A	100A	100A	100A	120A
Max.AC Charge Current	60A	60A	80A	80A	80A
Max.Charge Current (PV+AC)	60A	100A	100A	100A	120A
PHYSICAL					
Dimensions,D x W x H(mm)	358*295*100	358*295*100	358*295*100	438*295*105	438*295*105
Package Dimensions,D x W x H(mm)	465*380*175	465*380*175	465*380*175	560*375*185	560*375*185
Net Weight(Kg)	6	6.5	7	9	9
Communication Interface	RS232+RS485				
ENVIRONMENT					
Operating Temperature Range	(-10℃ to 55℃)				
Storage Temperature	(-15℃ ~ 60℃)				
Humidity	5% to 95% Relative Humidity (Non-condensing)				
Ingress Protection	IP21				

Product specifications are subject to change without further notice.

BIS Series [PV 60-500Vdc]

8.5 / 11KW 220V / 230Vac Output



Features

- Built-in 2 MPPT
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- Pure Sine Wave
- Power factor 1.0
- PV Input 500Vdc Max
- Built-in MPPT 140A/160A
- Capable to work without battery
- Detachable dust cover for harsh environment
- WIFI remote monitoring optional
- Support multiple output priority: SUB,SBU,SUF
- EQ function to optimize battery performance and extend lifecycle

No Battery Mode

PV 60-500Vdc

WIFI Optional

Dual MPPT

PF=1.0

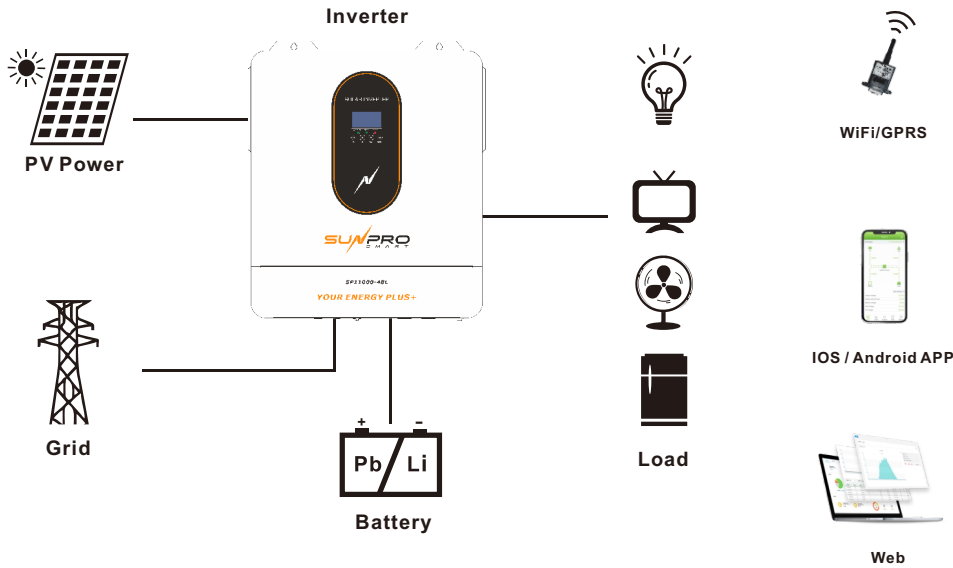
Anti-shock design terminal

BMS

Lithium Battery Activation

RS232 RS485

System Diagram



Technical Data

MODEL	SP8500-48L	SP11000-48L
Capacity	8.5KVA/8.5KW	11KVA/11KW
Maximum PV Input Power	10KW	11KW
Parallel Capability	NO	NO
Lithium Battery Activation	YES (By PV or Utility)	
Lithium Battery Communication	YES(RS485)	
Built-in WIFI	Optional	
INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)	
Frequency	50/60 Hz (Auto sensing)	
OUTPUT		
Nominal Voltage	220/230/240VAC	
Surge Power	17000VA	22000VA
Frequency	50/60 Hz	
Waveform	Pure Sine wave	
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)	
Peak Efficiency	94%	
Overload Protection	5s@ > =140% load; 10s@110%~140% load	
Admissible Power Factor	0.6~1 (inductive or capacitive)	
BATTERY		
Battery Voltage	48VDC	48VDC
Maximum Discharge Current	180A	220A
Floating Charge Voltage	54VDC	54VDC
OverCharge Protection	63VDC	63VDC
Charging Method	CC/CV	
SOLAR CHARGER & AC CHARGER		
Solar Charger TYPE	MPPT	MPPT
Max.PV Array Power	5000W*2	5500W*2
Max. PV Array Open Circuit Voltage	500VDC	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC	60VDC~500VDC
Max. Solar Input Current	18A*2	18A*2
Max. Solar Charge Current	140A	160A
Max. AC Charge Current	120A	120A
Max. Charge Current	140A	160A
PHYSICAL		
Dimensions, D x W x H(mm)	540*403*122	540*403*122
Net Weight (Kgs)	14.5	14.8
Communication Interface	RS232/RS485/DRY CONTACT	
LCD	YES	
ENVIRONMENT		
Operating Temperature Range	-10°C to 55°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Ingress Protection	IP21	

Product specifications are subject to change without further notice.

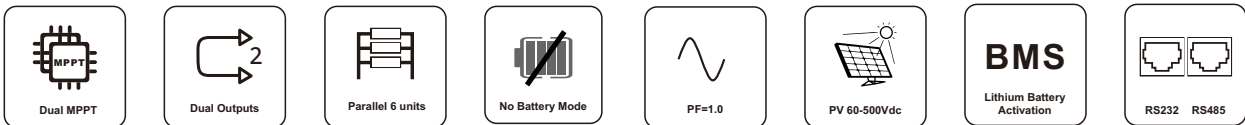
M Series [PV 60-500Vdc]

8.5 / 11KW 220V / 230Vac Output

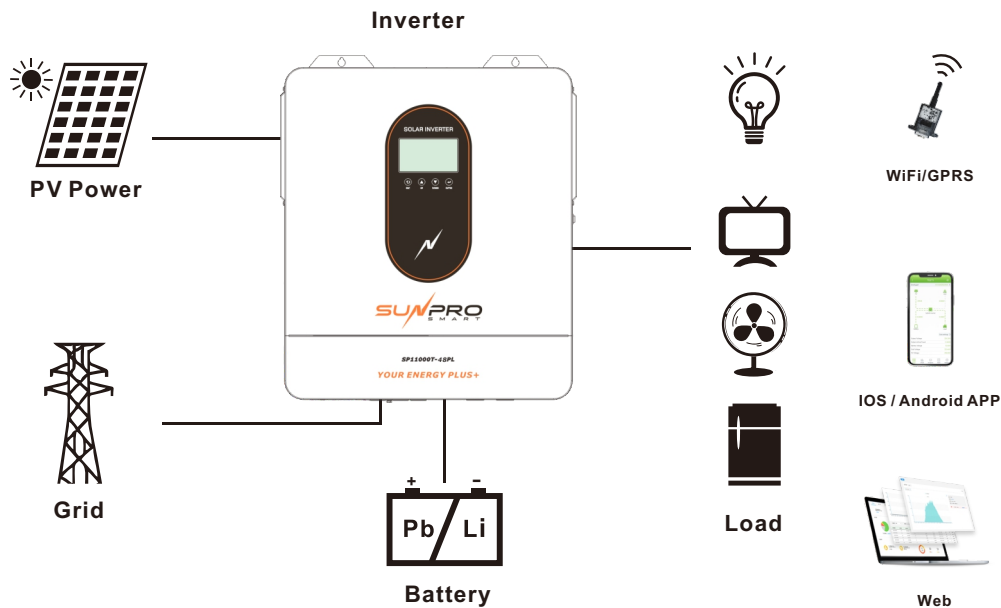
Features



- Dual AC output
- Built-in 2 MPPT
- Parallel max up to 6 units
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- Pure Sine Wave
- Power factor 1.0
- PV Input 500Vdc Max
- Built-in MPPT 140A/160A
- Capable to work without battery
- Detachable dust cover for harsh environment
- WIFI remote monitoring optional
- Support multiple output priority: SUB,SBU,SUF
- EQ function to optimize battery performance and extend lifecycle



System Diagram



Working Mode



Technical Data

MODEL	SP8500T-48PL	SP11000T-48PL
CAPACITY	8.5KVA/8.5KW	11KVA/11KW
Maximum PV Input Power	10KW	11KW
Twin AC Output Function	YES	YES
Maximum Main Output Power	8.5KVA/8.5KW	11KVA/11KW
Maximum Second Output Power	5KVA/5KW	5.5KVA/5.5KW
Maximum Total Output Power	8.5KVA/8.5KW	11KVA/11KW
Parallel Capability	YES, 6units	YES, 6units
Lithium Battery Communication	YES(RS485)	YES(RS485)
Lithium Battery Activation	YES(By PV or Utility)	YES(By PV or Utility)
Built-in WIFI	Optional	
INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)	
Frequency	50/60 Hz (Auto sensing)	
OUTPUT		
Nominal Voltage	220/230/240VAC	
Surge Power	17000VA	22000VA
Frequency	50/60 Hz	
Waveform	Pure Sine wave	
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)	
Peak Efficiency (PV to INV)	96%	
Peak Efficiency (Battery to INV)	93%	
Overload Protection	5s@ > =140% load; 10s@110%~140% load	
Crest Factor	3:1	
Admissible Power Factor	0.6~1 (inductive or capacitive)	
BATTERY		
Battery Voltage	48VDC	48VDC
Maximum Discharge Current	180A	220A
Floating Charge Voltage	54VDC	54VDC
OverCharge Protection	63VDC	63VDC
Charging Method	CC/CV	CC/CV
Solar Charger & AC Charger		
Solar Charger TYPE	MPPT	MPPT
Max.PV Array Power	5000W*2	5500W*2
Max. PV Array Open Circuit Voltage	500VDC	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC	60VDC~500VDC
Max. Solar Input Current	18A*2	18A*2
Max. Solar Charge Current	140A	160A
Max. AC Charge Current	120A	120A
Max. Charge Current	140A	160A
PHYSICAL		
Dimensions, D x W x H(mm)	540*415*122	540*415*122
Net Weight (Kgs)	14.5	15.5
Communication Interface	RS232/RS485/Dry-contact	
LCD	YES	
ENVIRONMENT		
Operating Temperature Range	-10°C to 55°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Ingress Protection	IP21	

Product specifications are subject to change without further notice.