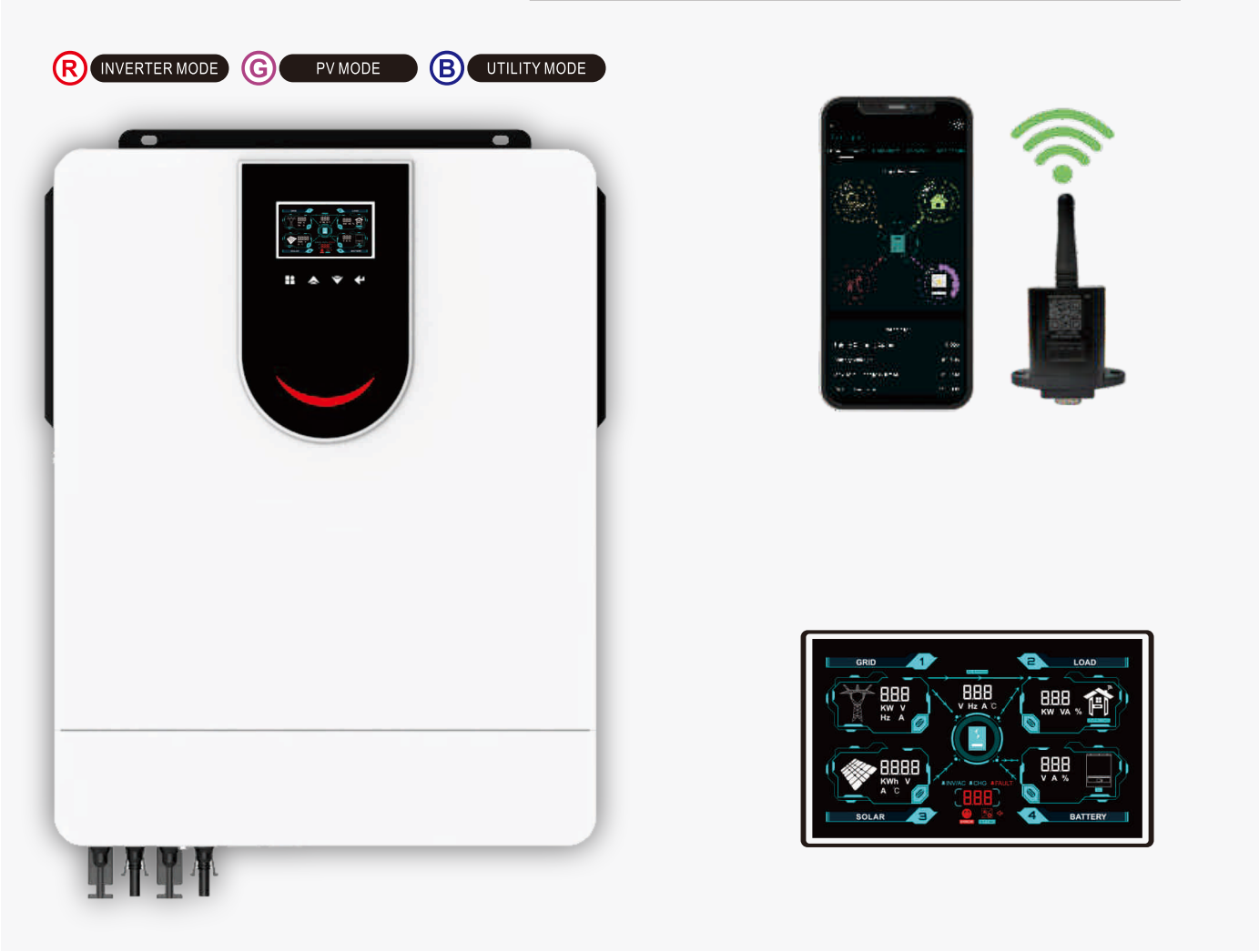


ON/OFF GRID SOLAR INVERTER

SY10.2KW

SERIES



»» Features

- Pure sine wave solar inverter(on/off Grid)
 - Output power factor 1.0
 - WIFI&GPRS available for IOS and Android
 - Inverter can run without battery
 - One-key restoration to factory Settings
 - Built-in Lithium battery automatic activation
 - Built-in 160A MPPT solar charger (for 8.2kw,10.2kw)
 - Dual communication ports for Battery communication and Wifi communication
- High PV input voltage range(90~ 500VDC)
 - Built-in anti-dust kit for harsh environment
 - Smart battery charge design to optimize battery life
 - Dual output
 - Dual PV input
 - Touch button
 - On Off Grid Work Mode

»» Product Data Sheet

MODEL	SY-8.2KW-48V		SY-10.2KW-48V	
Phase	1-phase			
Maximum PV Input Power	5400W+5400W			
Rated Output Power	8200W/8200VA		10200W/10200VA	
Maximum Solar Charging Current	160A			
GRID-TIE OPERATION				
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage	360/500VDC			
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC			
MPPT Voltage Range	90~450VDC			
Maximum Input Current	2/18A			
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Output Voltage Range	195~253VAC			
Nominal Output Current	35.6A		44.3A	
Power Factor	>0.99			
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	98%			
TWO LOAD OUTPUT POWER				
Full Load	8200W		10200W	
Maxium Main Load	8200W		10200W	
Maximum Second Load(battery mode)	2733W		3400W	
Maximum Load Cut Off Voltage	52VDC			
Maximum Load Return Voltage	54VDC			
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC			
Acceptable Input Voltage Range	90-280VACor170-280VAC			
Frequency Range	59~61±1HZ			
Maximum AC Input Current	48.2A		60A	
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage	360/500VDC			
MPPT Voltage Range	90~450VDC			
Maximum Input Current	2/18A			
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	48VDC			
Maximum Solar Charging Current	160A			
Maximum AC Charging Current	140A			
Maximum Solar+AC Charging Current	160A			
HYBRID OPERATION				
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage	360/500VDC			
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC			
MPPT Voltage Range	90~450VDC			
Maximum Input Current	2/18A			
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC			
Output Voltage Range	195~253VAC			
Nominal Output Current	35.6A		44.3A	
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	48.2A		60A	
Maximum AC Charging Current	140A			
GENERAL				
PHYSICAL				
Dimension,D*W*H(mm)	530x390x130			
Cartoon Dimension,D *W *H(mm)	620*465*205			
Net Weight (kgs)	14.2		14.7	
Gross Weight(kgs)	15.7		16.2	
INTERACE				
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY			
ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non~condensing)			
Operating Temperature	-10℃~50℃			
STANDARD				
Compliance Safety	CE			

ON/OFF GRID SOLAR INVERTER

SY6.2KW

SERIES



»» Features

- Pure sine wave solar inverter(on/off Grid)
 - Output power factor 1.0
 - WIFI&GPRS available for IOS and Android
 - Inverter can run without battery
 - One-key restoration to factory Settings
 - Built-in Lithium battery automatic activation
 - Dual communication ports for Battery communication and Wifi communication
- Built-in 120A MPPT Solar charge:max 6200W (for 3.6KW/4.2KW),max 6500W (for 6.2KW)
 - Built-in 80A MPPT Solar charge: max 6500W (for 3.6KW / 48V)
 - 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	SY-3.6KW-48V		SY-4.2KW-24V	SY-6.2KW-48V	
Phase			1-phase		
Maximum PV Input Power	6500W		6200W		6500W
Rated Output Power	3600W/3600VA		4200W/4200VA		6200W/6200VA
Maximum Solar Charging Current	80A		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	1/22A	1/18A		1/22A	
GRID OUTPUT(AC)					
Nominal Output Voltage	220/230/240VAC				
Output Voltage Range	195~253VAC				
Nominal Output Current	15.7A	18.2A		27.0A	
Power Factor	>0.99				
EFFICIENCY					
Maximum Conversion Efficiency(DC/AC)	98%				
TWO LOAD OUTPUT POWER					
Full Load	3600W	4200W		6200W	
Maxium Main Load	3600W	4200W		6200W	
Maxium Second Load(battery mode)	1200W	1400W		2067W	
Maximum Load Cut Off Voltage	52VDC	26VDC		52VDC	
Maximum Load Return Voltage	54VDC	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	59~61±1HZ				
Maximum AC Input Current	21.1A	24.7A		36.4A	
PV INPUT (DC)					
Nominal DC Voltage/Maximum DC Voltage	360/500VDC				
MPPT Voltage Range	60~450VDC				
Maximum Input Current	1/22A	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	48VDC	24VDC		48VDC	
Maximum Solar Charging Current	80A	120A		120A	
Maximum AC Charging Current	60A	100A		100A	
Maximum Solar+AC Charging Current	80A	120A		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	1/22A	1/18A		1/22A	
GRID OUTPUT(AC)					
Nominal Output Voltage	220/230/240VAC				
Output Voltage Range	195~253VAC				
Nominal Output Current	15.7A	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	21.1A	24.7A		36.4A	
Maximum AC Charging Current	100A				
GENERAL					
PHYSICAL					
Dimension,D*W*H(mm)	420*350*110				
Cartoon Dimension,D*W*H(mm)	500*415*180				
Net Weight (kgs)	8.0	8.0		8.9	
Gross Weight (kgs)	9.0	9.0		10.0	
INTERACE					
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY				
ENVIRONMENT					
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	-10℃~50℃				
STANDARD					
Compliance Safety	CE				

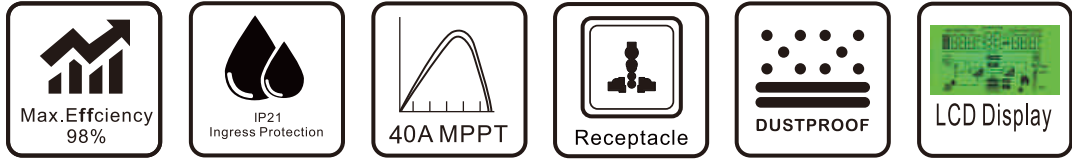
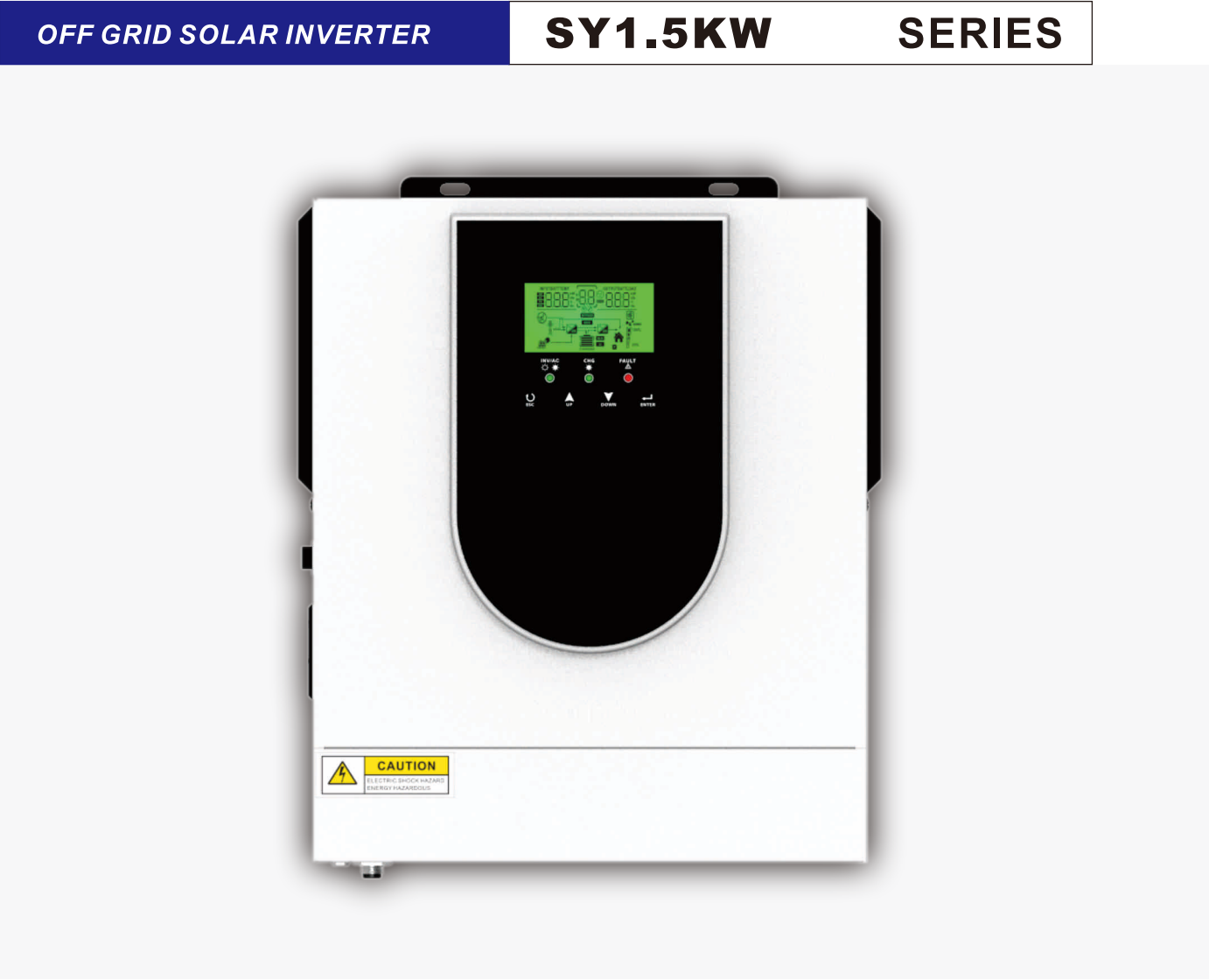


»» Features

- Pure sine wave solar inverter
- WIFI&GPRS available for IOS and Android
- Built-in 80A MPPT solar charger
- High PV input voltage range(30~400VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Meet rich customized demands
- Compatible with lithium battery
- Solar energy is provided directly to the load first

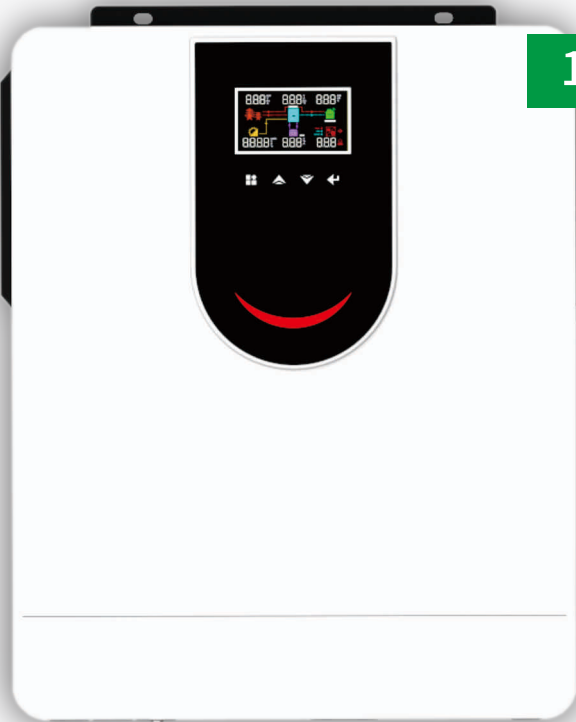
»» Product Data Sheet

MODEL	SY-2.0KW-12V		SY-3.2KW-24V	
Rated Power	2000VA/1600W		3200VA/3000W	
AC INPUT				
Voltage	230VAC			
Selectable Voltage Range	170~280VAC(ForPersonal Computers)			
Frequency Range	90~280VAC(ForHome Appliances)			
	50 Hz/60Hz(Auto sensing)			
AC OUTPUT				
AC Voltage Regulation	230VAC±5%			
Surge Power	4000VA		6400VA	
Efficiency(Peak)PV to INV	98%			
Efficiency(Peak)Battery to INV	94%			
Transfer Time	10 ms (For Personal Computers);20 ms (For Home Appliances)			
BATTERY				
Battery Voltage	12VDC		24VDC	
Floating Charge Voltage	13.5VDC		27VDC	
Overcharge Protection	16VDC		33VDC	
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximum PV Array Power	3000W		3000W	
MPPT Range @ Operating Voltage	30~400VDC			
Maximum PV Array Open Circuit Voltage Solar	400VDC			
Max Input Current	1/13A			
Maximum Solar Charging Current	80A			
Maximum AC Charging Current	60A			
Maximum Solar+AC Charging Current	80A			
PHYSICAL				
Dimension, D*W*H(mm)	357*273*95			
Cartoon Dimension, D*W*H(mm)	435*335*165			
Net Weight(kgs)	4.6		4.8	
Gross Weight(kgs)	5.6		5.8	
Communication Interface	RS232/GPRS/WIFI			
ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non~condensing)			
Operating Temperature	-10°C~50°C			
STANDARD				
Compliance Safety	CE			



ON/OFF GRID SOLAR INVERTER

SY3.6KW



110VAC/120VAC



»» Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- AC output voltage 120VAC
- Built-in 120AMPPT Solar charge:
max 4200W (for 3.6KW)
- 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

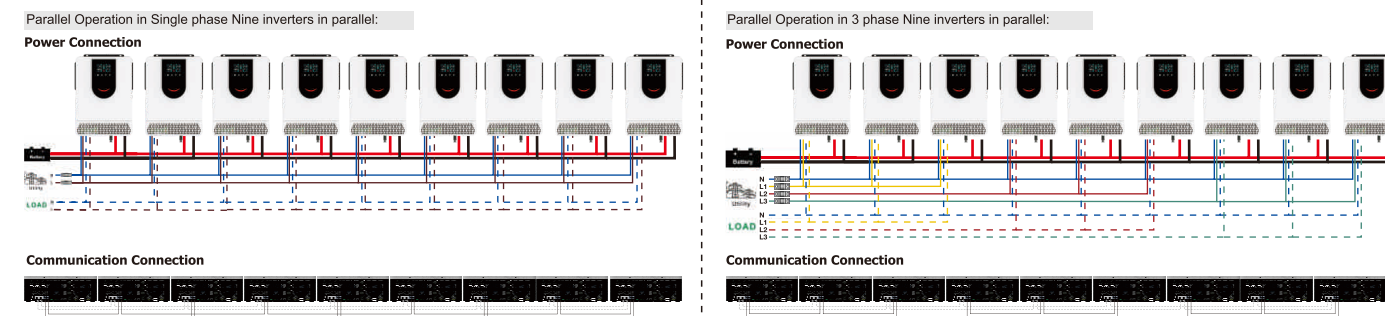
»» Product Data Sheet

MODEL	SY-3.6KW-24V
Phase	1-phase
Maximum PV Input Power	4200W
Rated Output Power	3600W/3600VA(3000/3150/3300)
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
GRID OUTPUT (AC)	
Nominal Output Voltage	120VAC(100/105/115V settable)
Output Voltage Range	90-150VAC
Nominal Output Current	30A
Power Factor	>0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	98%
TWO LOAD OUTPUT POWER	
Full Load	3600W
Maxium Main Load	3600W
Maxium Second Load(battery mode)	1200W
Maxium Load Cut Off Voltage	26VDC
Maximum Load Return Voltage	27VDC
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	110VAC/120VAC
Acceptable Input Voltage Range	90~150AC±2%
Frequency Range	49~51±1HZ
Maximum AC Input Current	40A
PV INPUT (DC)	
Nominal DC Voltage/Maximum DC Voltage	360/500VDC
MPPT Voltage Range	60~450VDC
Maximum Input Current	1/18A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	120VAC(100/105/115V settable)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	94%
BATTERY & CHARGER	
Nominal DC Voltage	24VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	100A
Maximum Solar+AC Charging Current	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
GRID OUTPUT (AC)	
Nominal Output Voltage	120VAC(100/105/115V settable)
Output Voltage Range	90-150VAC
Nominal Output Current	30A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/100VAC
Acceptable Input Voltage Range	90-150VAC
Maximum AC Input Current	40A
Maximum Charging Current	120A
GENERAL	
PHYSICAL	
Dimension,D*W*H(mm)	420*350*110
Cartoon Dimension,D *W *H(mm)	500*415*180
Net Weight (kgs)	8.8
Gross Weight(kgs)	10
INTERACE	
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non~condensing)
Operating Temperature	-10°C~50°C
STANDARD	
Compliance Safety	CE

SYP-6.2KW



- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in 120A MPPT Solar charge:
max 9000W(for 6KW)
- Built-in Lithium battery automatic activation
- 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 (only single phase)
- Can running three phase output
- Parallel operation up to 9 units
- Automatic access to the generator
- Dual PV input (only 6KW)
- Dual communication ports for Battery communication
and Wi ficomunication



MODEL	SYP-6.2KW-48V
Phase	1-phase
Maximum PV Input Power	4500W+4500W
Rated Output Power	6000W/6000VA
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	90VDC/120VDC
MPPT Voltage Range	60~450VDC
Number of MPPT Trakers / Maximum Input current	2/18A
GRID OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	195.5~253VAC
Nominal Output Current	26.1
Power Factor	>0.99
Feed-in Grid Frequency Range	49~51±Hz
EFFICIENCY	
Maximum Conversion Efficiency(Solar to AC)	98%
TWO LOAD OUTPUT POWER(V2.0)	
Full Load	6000W
Maximum Main Load	6000W
Maximum Second Load(battery mode)	2000W
Maximum Load Cut Off Voltage	52VDC
Maximum Load Return Voltage	54VDC
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	130-140VAC/180VAC
Acceptable Input Voltage Range	90-280VAC or 170-280VAC
Maximum AC Input Current	35.3A
Nominal operating frequency	47~55±0.3HZ/57~65±0.3HZ
Surge power	12000W
PV INPUT(DC)	
Nominal DC Voltage/Maximum DC Voltage	360/500VDC
Start-up Voltage/initial Feeding Voltage	130VDC/120VDC
MPPT Voltage Range	60~450VDC
Number of MPPT Trakers / Maximum Input current	2/18A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Wave Form	Pure sine wave
Efficiency (DC to AC)	94%
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
Number of MPPT Trakers/Maximum Input current	2/18A
GRID OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	195.5~253VAC
Nominal Output Current	26.1
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	35.3A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Efficiency (DC to AC)	94%
BATTERY & CHARGE	
Nominal DC Voltage	48VDC
Maximum AC Charging Current	100A
Maximum Solar Charging Current	120A
Maximum Solar+AC Charging Current	120A
GENERAL	
PHYSICAL	
Dimension ,H*W*D(mm)	430*316*115
Cartoon Dimension ,H*W*D(mm)	500*390*195
Net Weight (kgs)	10
Gross Weight(kgs)	11
INTERFACE	
Parallel Function	9 units
Communication Port	RS232/RS485/WIFI/CAN/PARALLEL