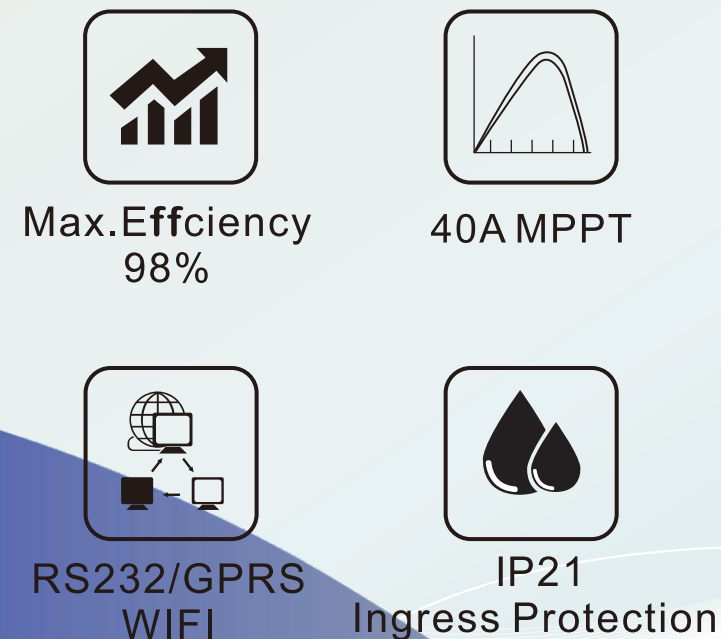


HYBRID SOLAR INVERTER



Features

- Pure sine wave solar inverter
- Output power factor 0.8
- Wifi&GPRS available for IOS and android
- Built-in 40A MPPT solar charger
- High PV input voltage range (30-150VDC)
- Built-in anti-dusk kit for harsh environment
- Smart battery charge design to optimize battery life
- meet the rich customize needs of customers
- Compatible with lithium battery
- Solar energy is provided directly to the load first

»» Product Data Sheet

Model	SY-1K12	SY-2K24
RATED POWER	1000VA/800W	2000VA/1600W
AC Input		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers)	
	90~280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
AC OUTPUT		
AC Voltage Regulation	230VAC±5%	
Efficiency(Peak)PV to INV	98%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10ms(for personal computers); 20ms (for home appliances)	
BATTERY & AC CHARGER		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	33VDC
Maximum AC Charge Current	40A	
SOLAR CHARGER		
Maximum PV Array Power	550W(12V)/1100W(24V)	
MPPT Range @ Operating Voltage	30-150VDC	
Maximum PV Array Open Circuit Voltage	150VDC	
Maximum Charging Current	40A	
PHYSICAL		
Dimension,D*W*H(mm)	300*235*85	
Cartoon Dimension,D X W XH(mm)	340*275*145	
Net Weight(kgs)	3.6	
Gross Weight(kgs)	4.2	
Communication interface	RS232/GPRS/WIFI	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10~50℃	

SY3.2K

SERIES



Max.Efficiency
98%



80A MPPT



RS232/GPRS
WIFI



IP21
Ingress Protection

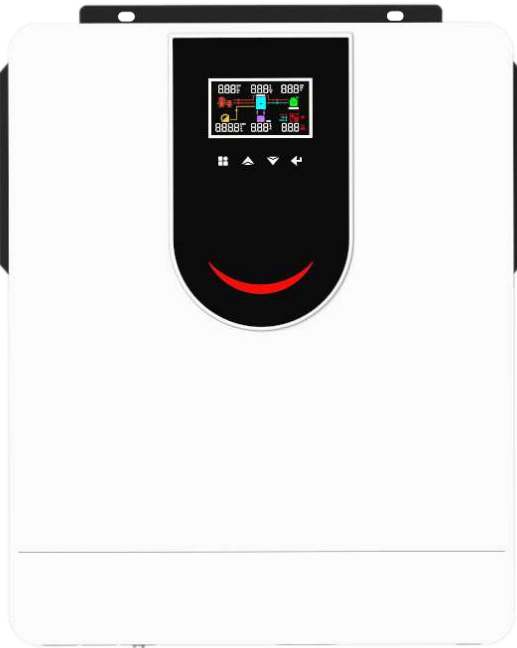
Model	SY2.0K		SY3.2K	
RATED POWER	2000VA/1600W		3200VA/3000W	
AC Input				
Voltage	230VAC			
Selectable Voltage Range	170~280VAC(For Personal Computers)			
	90~280VAC(For Home Appliances)			
Frequency Range	50 Hz/60Hz(Auto sensing)			
AC OUTPUT				
AC Voltage Regulation	230VAC±5%			
Surge Power	4000VA		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 & AC CHARGER				
Battery Voltage	12VDC		24VDC	
Floating Charge Voltage	13.5VDC		27VDC	
Overcharge Protection	16VDC		33VDC	
Maximum AC Charge Current	60A			
SOLAR CHARGER				
Maximum PV Array Power	2000W		3000W	
MPPT Range @ Operating Voltage	30-400VDC			
Maximum PV Array Open Circuit Voltage	400VDC			
Maximum Charging Current	80A			
PHYSICAL				
Dimension,D*W*H(mm)	370*280*100			
Cartoon Dimension,D X W XH(mm)	440*340*180			
Net Weight(kgs)	4.6		5.3	
Gross Weight(kgs)	5.5		6.0	
Communication interface	RS232/GPRS/WIFI			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non~condensing)			
Operating Temperature	-10 ~50℃			

Features

- Pure sine wave solar inverter
- Output power factor SY2.0K=0.8/SY3.2K>0.9
- Wifi&GPRS available for IOS and android
- Built-in80A 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 the rich customize needs of customers
- Compatibe with lithium battery
- Solar energy is provided directly to the load first

SY6.2K

SERIES



Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter running without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A(for 3.6KW/6.2KW)
- MPPT:Max 6200W(3.6KW),Max 4200W(for 4.2KW), Max 6500W(for 6.2KW)solar charge
- High PV input voltage range(60~450VDC) Built-in anti-dusk kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

120A
MAX PV
CHARGING

PURE
SINE WAVE

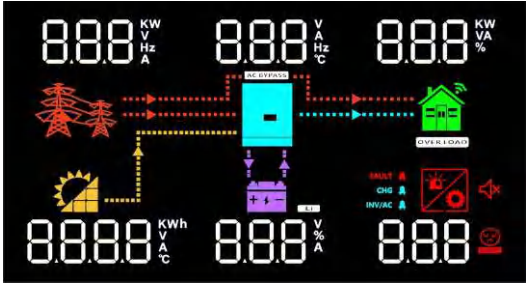
WORKS
WITH AND WITHOUT
BATTERY

UPGRADED
MPPT

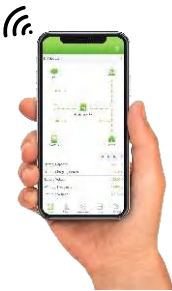
LI-ION

BUILT IN
ANTI DUST
KIT

LCD Display

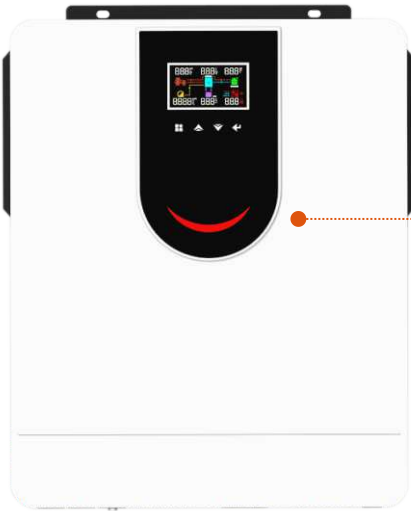


WIFI&GPRS available for ios and Android



RGB LIGHT

RGB lighting for different working mode
RGB automatically switches with the



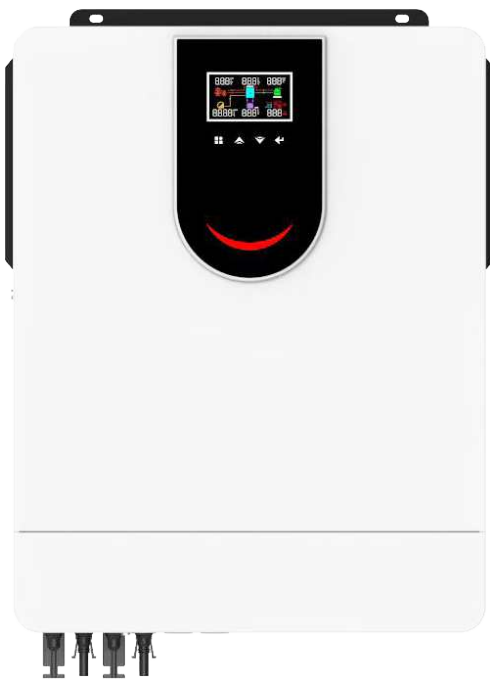
ON/OFF GRID SOLAR INVERTER

MODEL	SY3.6KW	SY4.2KW	SY6.2KW
Phase			
		1-phase	
Maximum PV Input Power	6200W	6200W	6500W
Rated Output Power	3600W	4200W	6200W
Maximum Solar Charging Current	120A	120A	120A
GRID-TIE OPERATION			
PV Input(DC)			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
Maximum DC Voltage	60~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
GRID OUTPUT(AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	15.7A	18.2A	27.0A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(Sloar to AC)	98 %		
TWO LOAD OUTPUT POWER(V2.0)			
Full Load	3600W	4200W	6200W
Maximum Main Load	3600W	4200W	6200W
Maximum Second Load(battery mode)	1200W	1400W	2067W
Main Load Cut Off Voltage	22VDC	22VDC	44VDC
Main Load Return Voltage	27VDC	24VDC	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		
Maximum AC Input Current	30A	30A	40A
Nominal operating frequency	50/60Hz		
Surge power	7200W	8400W	12400 W
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	24VDC	48VDC
Maximum Charging Current (Solar to AC)	120A		
Maximum AC Charging Current	100A		
GENERAL			
PHYSICAL			
Dimension,D x W x H(mm)	440*355*115		
Cartoon Dimension,D X W XH(mm)	500*420*185		
Net Weight(kgs)	8.8	9.8	9.8
Gross Weight(kgs)	10	11	11
INTERFACE			
Communication Port	RS232/WIFI/GPRS		
ENVIRONMENT			
Operating Temperature	-10 ~50℃		

SY10.2K

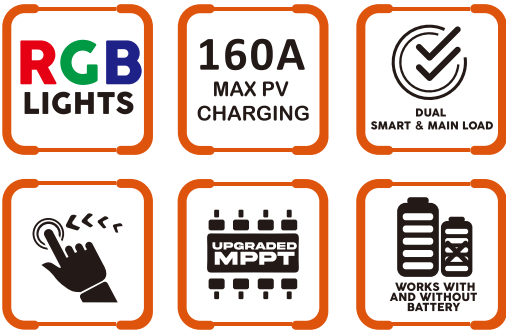
SERIES

ON/OFF GRID SOLAR INVERTER



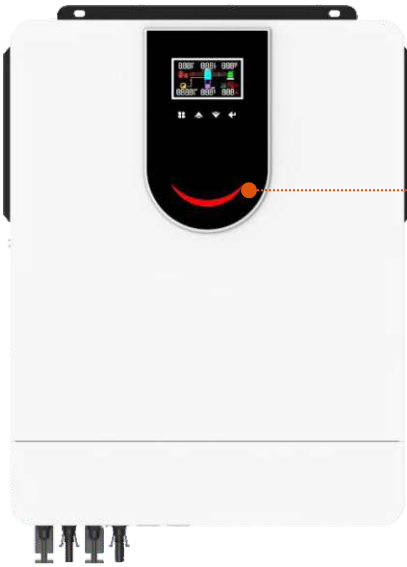
Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter running without battery
- One-click restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 160A MPPT solar charger
- High PV input voltage range(90~450VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Touch button

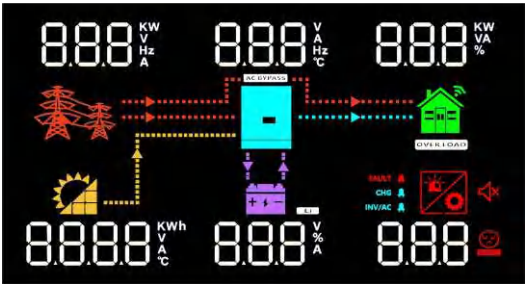


RGB LIGHT

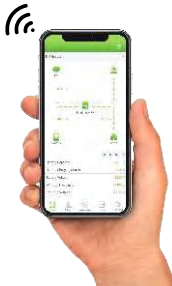
RGB lighting for different working mode
RGB automatically switches with the



LCD Display



WIFI&GPRS available for ios and Android



MODEL	SY8.2K	SY10.2K
Maximum PV Input Power	8200W	10200W
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	160A
GRID-TIE OPERATION		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90VDC~450VDC	
Number of MPPT Trackers/Maximum Input Current	1/27A	
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	
Feed-in Grid Frequency Range	49~51±1Hz	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	8200W	10200W
Maximum Main Load	8200W	10200W
Maximum Second Load(battery mode)	2733W	3400W
Main Load Cut Off Voltage	44VDC	44VDC
Main Load Return Voltage	48VDC	48VDC
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	280VAC or 170-280VAC	
Maximum AC Input Current	40A	50A
Nominal operating frequency	50/60Hz	
Surge power	16400W	20400W
PV INPUT(DC)		
Maximum DC Voltage	500VDC	
MPPT Voltage Range	90VDC~450VDC	
Number of MPPT Trackers/Maximum Input Current	1/27A	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	48VDC	48VDC
Output Waveform	Pure sine wave	
Efficiency(DC to AC)	94%	
BATTERY & CHARGER		
Nominal DC Voltage	48VDC	48VDC
Maximum Solar Charging Current	160A	160A
Maximum AC Charging Current	140A	160A
GENERAL		
PHYSICAL		
Dimension,D X W X H(mm)	555*405*135	
Cartoon Dimension,D X W XH(mm)	590*465*215	
Net Weight(kgs)	14.2	14.5
Gross Weight(kgs)	15.7	16.0
INTERFACE		
Communication Port	RS232/ WIFI/Remove LCD/GPRS	
ENVIRONMENT		
Operating Temperature	-10 ~50℃	