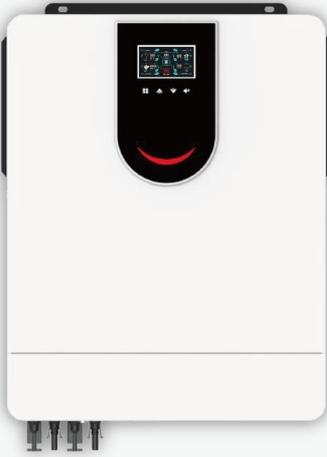


ON/OFF GRID SOLAR INVERTER

SY10.2KW SERIES

R INVERTER MODE **G** PV MODE **B** UTILITY MODE



» 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
Power Factor	>0.99

EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	98%

TWO LOAD OUTPUT POWER	
Full Load	8200W
Maximum Main Load	8200W
Maximum Second Load(battery mode)	2733W
Maximum Load Cut Of 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	90-280VAC or 170-280VAC
Frequency Range	59~61±1HZ
Maximum AC Input Current	48.2A

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
Power Factor	>0.99

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
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
Gross Weight(kgs)	15.7

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