



## Hosola Sunshine Series Hybrid Inverter



New product

Hosola Sunshine Series inverter is applicable to on-grid/ off-grid PV systems. With its operation situation able to be switched automatically or manually, it can control the flow of energy easily.

### Features

- Advanced DSP& Digital Control Technology
- On-grid/ off-grid/ hybrid mode available
- Pure sine wave output
- DSP digital control system
- LCD display providing comprehensive information
- Alternative green power generator
- Three-stage charge control

- Integrating all the functions of on-grid inverter
- Charging battery by either solar or grid energy
- More self consumption, maximum profit
- Supplying backup power at grid failure



### Flexibility

- IP 20, indoor installation
- Easy installation, free maintenance
- Multiple communication modes such as RS485, USB, etc
- Battery insulated with system, high safety
- Friendly man-machine interface with LCD display
- Able to monitor your system on PC or smart phone

### Reliability

- Reliable protection for over/ under voltage, anti-islanding, short circuit, overload, etc
- 2 years standard warranty, extendable to 5 years
- Complying with EN62109-1, EN62109-2, VDE0126-1-1, VDEAR-N-4105, G83/1, AS/NZS 3100, AS4777, etc



G83

G59

EN50438



## Hosola Sunshine Series Technical Data

High  
SafetyHigh  
QualityHigh  
Efficiency

Type	Sunshine3048MTL	Sunshine5048MTL
<b>PV Input</b>		
Max DC input	3200W/13A per string	7500W/15A per string
Number of DC input	2	2
Number of MPPT tracking	2	2
DC switch	N/A	N/A
PV voltage range	100-500	100-500
MPPT voltage range	150-450	150-450
PV connector	MC4	MC4
Max efficiency	96.00%	96.30%
MPPT efficiency	99.90%	99.90%
<b>Battery</b>		
Battery type	lead acid/ Li	lead acid/ Li
Battery voltage range	40-60 vdc	40-60 vdc
Charging range	0-30A could be programed	0-30A could be programed
Battery cap.	above 120AH	above 120AH
Charing modle	Three-stage charge control	Three-stage charge control
Battery temperature compensation	N/A	N/A
Battery voltage sense	integration	integration
Battery cricuit sense	integration	integration
<b>AC Output</b>		
Rated output power	3000W	5000W
AC output current	15/14/13/13A	25/23/22/21A
Power factor	load 0.9-lag0.9 can adjust	load 0.9-lag0.9 can adjust
Rated ouput Voltage	208/220/230/240 50hz/60hz	208/220/230/240 50hz/60hz
AC Voltage range	184-264.5vac	184-264.5vac
AC output voltage (Off-grid)	voltage and frequency +/- 2%, hdi<3%	voltage and frequency +/- 2%, hdi<3%
Peak Power ( Off-grid)	1.1xPnom,1min;1.5xPnom,30s, linear increase to2xPnom,will protection	1.1xPnom,1min;1.5xPnom,30s, linear increase to2xPnom,will protection
AC output protection	smart software protection	smart software protection
Standby power-consumption	less than 5w	less than 5w
User Interface	LCD	LCD
Communication	USB2.0;RS485/wifi	USB2.0;RS485/wifi
Overload capacity	3300W	5500W
AC Input protection	Fuse	Fuse
<b>Installation Enviroment</b>		
Enviroment temperature range	-10---+45°	-10---+45°
Storage temperature range	-40 to 70 °	-40 to 70 °
Humidity	max 95%	max 95%
Islanding protection way	AFD	AFD
Warranty	2 years (optional:extension to ten years)	2 years (optional:extension to ten years)
<b>General Data</b>		
Dimension (DxWxH)	506*467*110	506*467*110
Protection Class	Indoor	Indoor
Net Weight	35kg	35kg
Topology	High frequency transformer	High frequency transformer
Cooling mode	Fan	Fan