

SERIES MODELS

Single phase on-grid & storage inverter

Sunwins HY-2K

Sunwins HY-3K

Sunwins HY-3K Plus

Three phase on-grid & storage inverter

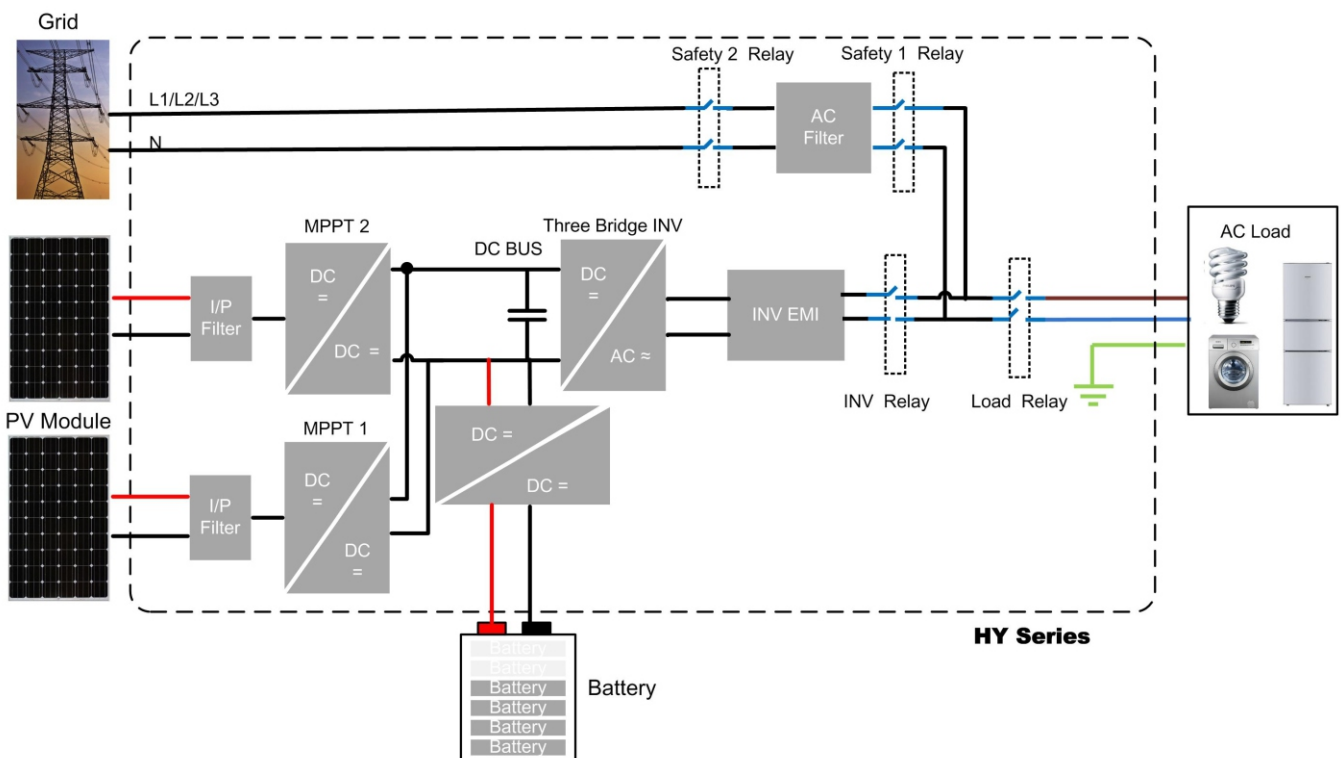
Sunwins HY-10K

PRODUCT FEATURES



- 10KW three phase on-grid inverter with Energy Storage
- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, battery or grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid-tied, Off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP

BLOCK DIAGRAM



TECHNICAL DATA

Sunwins HY-10K	
Phase	3-phase in / 3-phase out
Rated output power	10000W
Grid-Tie Operation	
Input Data(DC)	
Maximum PV Input Power	14850W
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18 .6A
GRID OUTPUT (AC)	
Nominal Output Voltage	3/N/PE, 230 VAC*
Output Voltage Range	184 - 264.5 VAC*
Nominal Output Current	14.5A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency@ Vnominal	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC / 180 VAC±3%
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	25A
PV INPUT (DC)	
Maximum DC Voltage	900 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18 .6A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC*
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18 .6A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC*
Output Voltage Range	184 - 264.5 VAC*
Nominal Output Current	14.5 A
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC / 180 VAC±3%
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	25 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	3/N/PE, 230 VAC*
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	100A - 200A (Adjustable)

PART III / ON-GRID & STORAGE INVERTER SUNWINS HY SERIES



TECHNICAL DATA

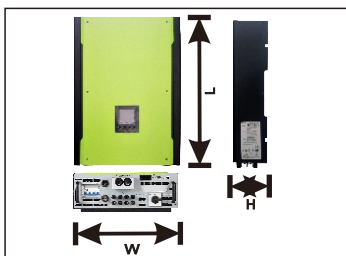
Sunwins HY-10K	
Phase	3-phase in / 3-phase out
GENERAL DATA	
Physical Data	
Dimension, W x H x D	500 x 622 x 167.5(mm)
Weight	45 kg
Protection Degree	IP 21
Interface	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
Environment	
Relative Humidity (Non-condensing)	0% to 95%
Operating Temperature	-20°C to 55°C
Storage Temperature	-20°C to 60°C
Standard Warranty(years)	2 years
Altitude	0 ~ 2000 m**
* AC voltage range may vary depending on different AC voltage.	
* * Power derating 1% every 100 m when altitude is over 1000m.	
* Product specifications are subject to change without further notice	

Version : 1.5

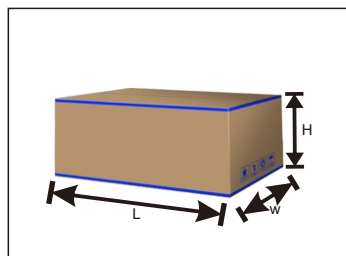
PACKING DATA

Model	N.W (kg)	G.W (kg)	pcs / box	Product Size L*W*H (mm)	Packing Size L*W*H(mm)	20' Ft Container			40' Ft Container		
						pcs*layer	pallet	total(pcs)	pcs*layer	pallet	total(pcs)
Sunwins HY-2K	15.5	18.1	1pcs / box	480*438*107	610*510*270	4*7	10	280	4*7	21	588
Sunwins HY-3K											
Sunwins HY-3K-Plus											
Sunwins HY-10K	45	50		622*500*167.5	800*600*307	2*6	11	132	2*6	24	288
Standard Pallet Size	1200*800*2122										

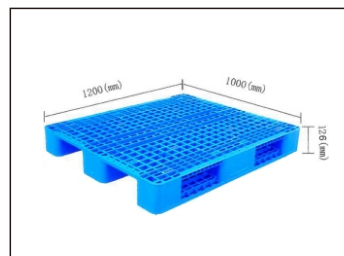
PACKING SIZES



Product Size



Product Packing Size

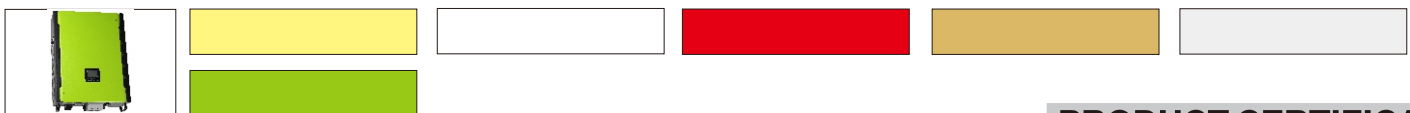


Standard Pallet Size



Pallet Packing Model

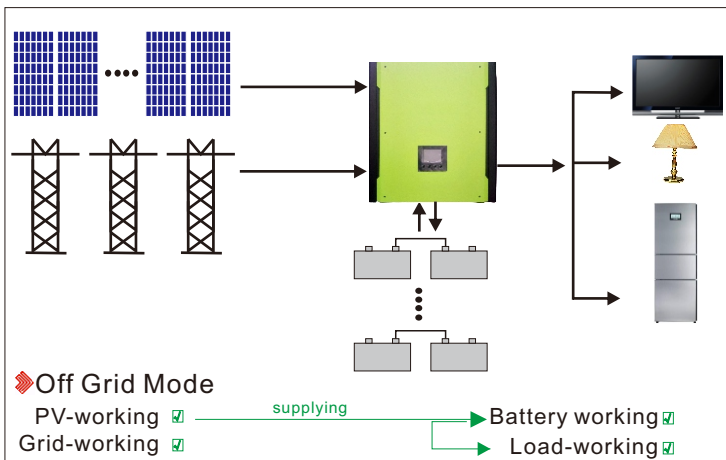
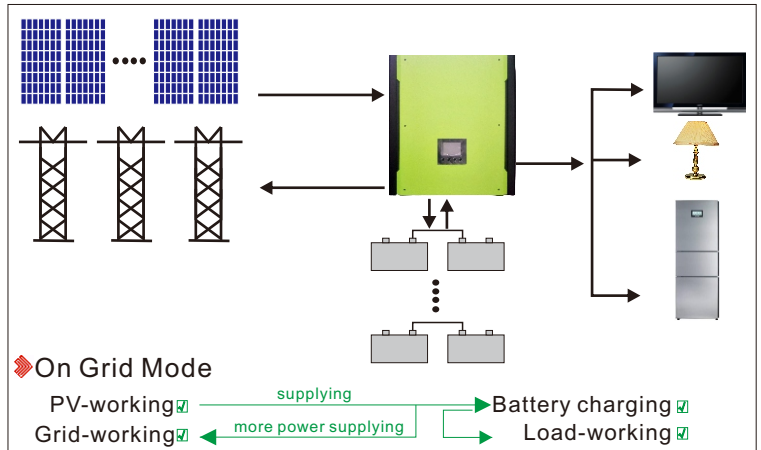
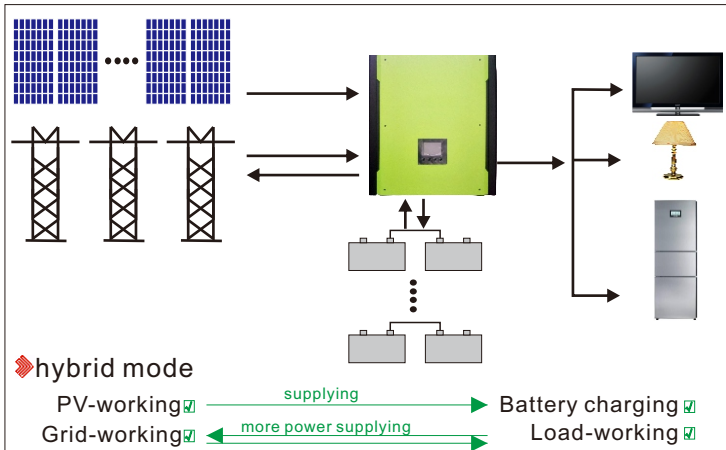
COLOR OPTIONS



PRODUCT CERTIFICATION



DIFFERENT WORKING MODE



SYSTEM SOLUTION & APPLICATION CASES



We can provide :

- * 1kw to 200kw on-grid / off-grid / storage energy solutions.
- * Professional design and good quality.
- * Ensure safe and convenient construction.
- * Easy to maintain and convenient to replace.
- * Wide applications range for different environments.

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