

SERIES MODELS

Single phase on-grid & storage inverter

Sunwins HY-2K

Sunwins HY-3K

Sunwins HY-3K Plus

Three phase on-grid & storage inverter

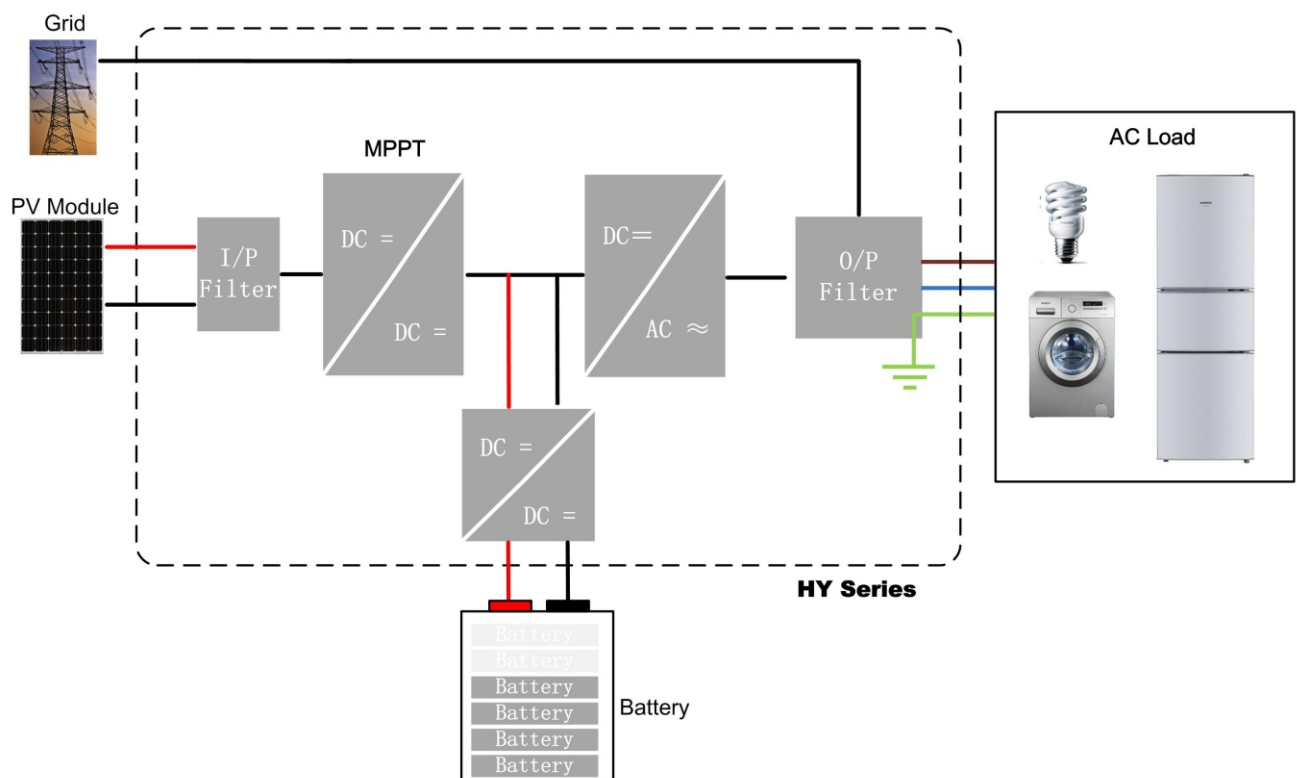
Sunwins HY-10K

PRODUCT FEATURES



- 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 tie, 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



PART III / ON-GRID & STORAGE INVERTER

SUNWINS HY SERIES



TECHNICAL DATA

	Sunwins HY-2K	Sunwins HY-3K	Sunwins HY-3K Plus
Phase	1-phase in / 1-phase out		
Rated output power	2000W	3000W	3000W
Grid-Tie Operation			
Input Data(DC)			
Maximum PV Input Power	2250W	3200W	4500W
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC	
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 13 A	1 / 1 x 18 A
GRID OUTPUT (AC)			
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC	208/220/230/240 VAC
Output Voltage Range	88 - 127 VAC*	184 - 264.5 VAC*	
Nominal Output Current	18 A	13A	13A
Power Factor	> 0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	95%	96%	96%
European Efficiency@ Vnominal	94%	95%	95%
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	85 - 130 VAC	170 - 280 VAC	170 - 280 VAC
Maximum AC Input Current	30A		
PV INPUT (DC)			
Maximum DC Voltage	350 VDC	500 VDC	
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 13 A	1 / 1 x 18 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	
Output Waveform	Pure Sinewave		
Efficiency (DC to AC)	90%	93%	93%
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC	
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 13 A	1 / 1 x 18 A
GRID OUTPUT (AC)			
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	
Output Voltage Range	88 - 127 VAC*	184 - 264.5 VAC*	
Nominal Output Current	18 A	13A	13A
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	88 - 130 VAC	170 - 280 VAC	170 - 280 VAC
Maximum AC Input Current	30A		
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	
Efficiency (DC to AC)	90%	93%	93%
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC		
Maximum Charging Current	25A		

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



TECHNICAL DATA

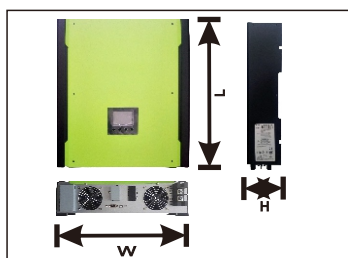
	Sunwins HY-2K	Sunwins HY-3K	Sunwins HY-3K Plus
Phase	1-phase in / 1-phase out		
GENERAL DATA			
Physical Data			
Dimension, W x H x D	438 x 480 x 107(mm)		
Weight	15.5 kg		
Protection Degree	IP 21		
Interface			
Communication Port	RS-232/USB		
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available		
Environment			
Relative Humidity (Non-condensing)	0% to 95%		
Operating Temperature	-20°C to 45°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

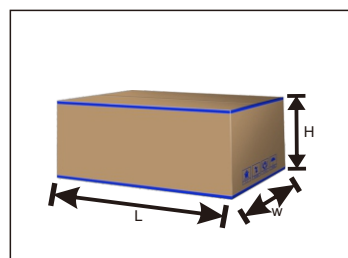
PACKING DATA

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*1000*(1226+951)										

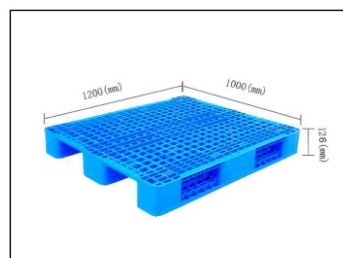
PACKING SIZES



Product Size



Product Packing Size

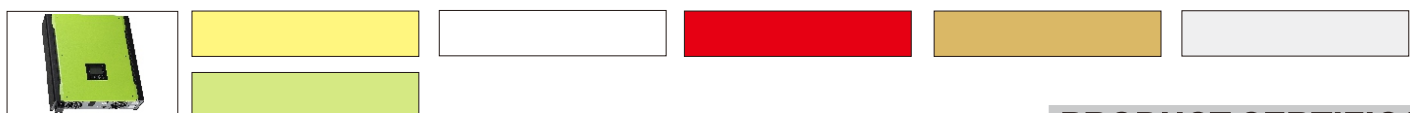


Standard Pallet Size



Pallet Packing Model

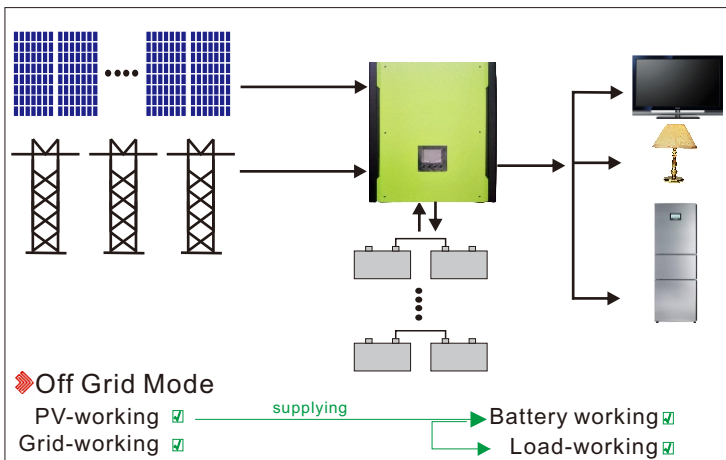
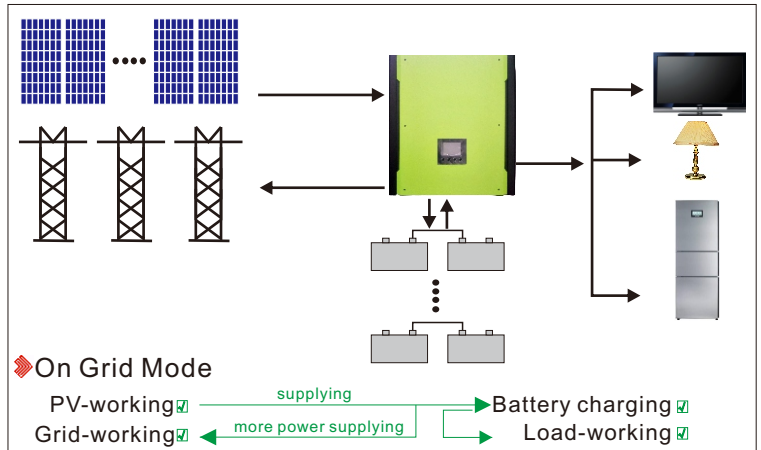
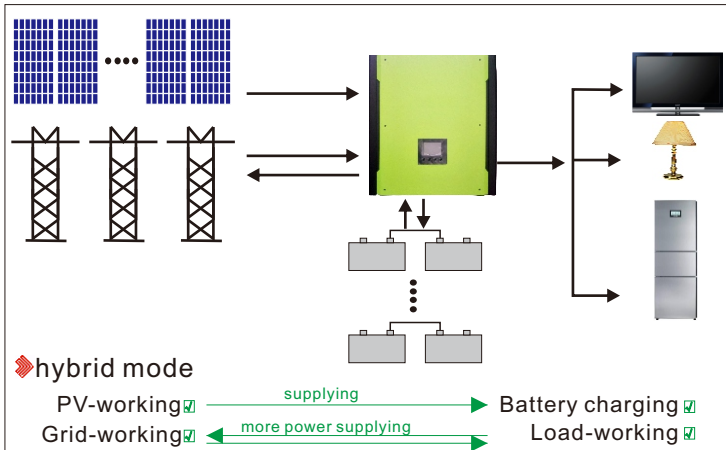
COLOR OPTIONS



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.

Sunwins Technologies (Suzhou) Co.,Ltd.

5F, Building 2, No.2358, Changan RD, Suzhou, 215200, P.R.CHINA

TEL: +86 512 6316 9621 FAX: +86 512 6316 9571

WEB: www.sunwins-tech.com

E-MAIL: Info@sunwins-tech.com / sales@sunwins-tech.com

