

SERIES MODELS

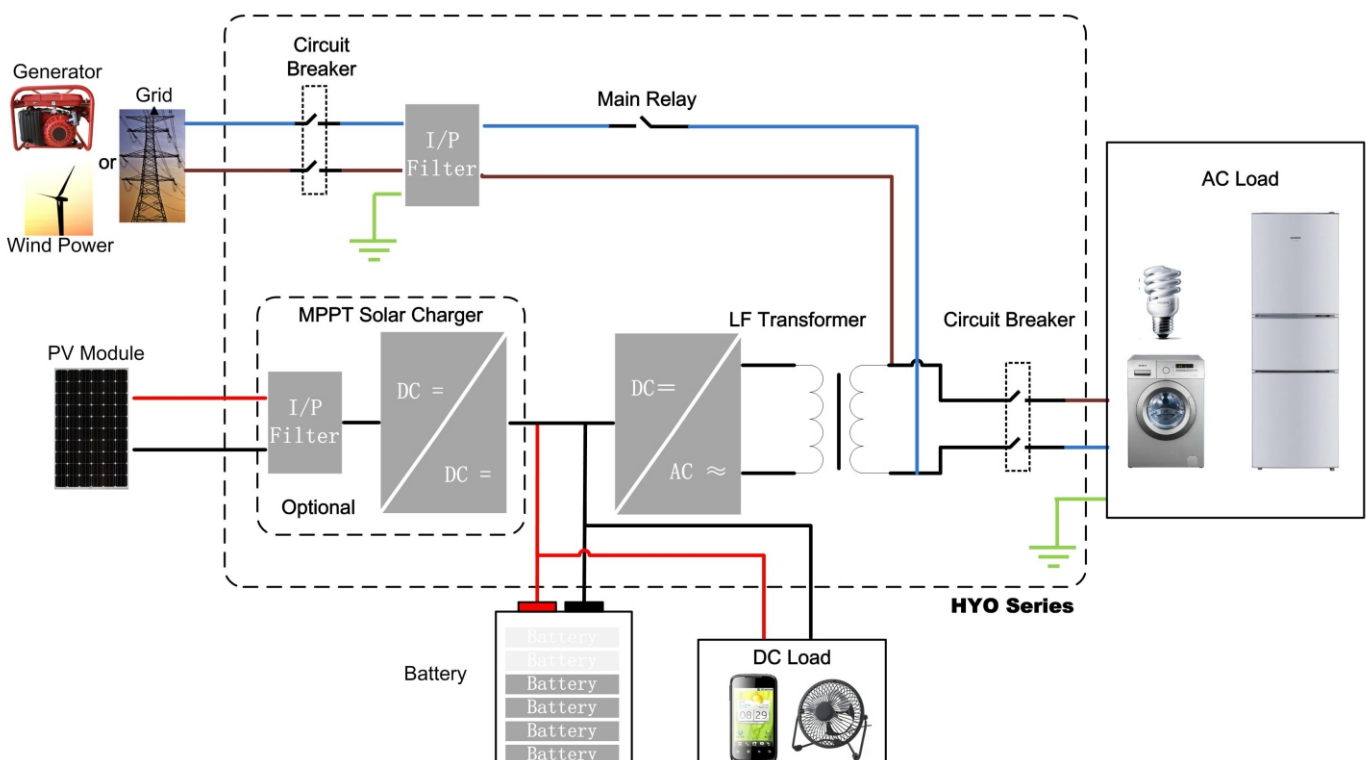
Sunwins HYO-1K	Sunwins HYO-1.5K	Sunwins HYO-2K	Sunwins HYO-3K	
Sunwins HYO-4K	Sunwins HYO-5K	Sunwins HYO-6K		
Sunwins HYO-8K	Sunwins HYO-10K	Sunwins HYO-12K		

PRODUCT FEATURES



- Support solar Panel with MPPT function
- Designed to operate under harsh environment
- DC start & automatic self-diagnostic function
- Compatible with both linear & non-linear load
- Low DC voltage supports home & office appliance
- Powerful charge rate up to 120Amp, selectable from 0%-100%
- Battery priority mode, designates the inverter-preferred UPS configuration
- 13 V battery recover point, dedicated for renewable energy system
- 4-step intelligent battery charging

BLOCK DIAGRAM



PART IV / OFF-GRID & STORAGE INVERTER

SUNWINS HYO SERIES



TECHNICAL DATA

	Sunwins HYO-1K/1.5K/2K/3K	Sunwins HYO-4K/5K/6K	Sunwins HYO-8K/10K/12K
Inverter Output			
Continuous Output Power	1KW ~3KW	4KW ~6KW	8KW ~12KW
Surge Rating(20s)	3KW ~9KW	12KW ~18KW	24KW ~36KW
Output Waveform	Pure Sine wave/Same as input(Bypass Mode)		
Nominal Efficiency	>88%(Peak)		
Line Mode Efficiency	>95%		
Power Factor	0.9-1.0		
Nominal Output Voltage rms	100-110-120Vac / 220-230-240Vac		
Output Voltage Regulation	± 10% RMS		
Output Frequency	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Short Circuit Protection	Yes(1sec after fault)		
Typical transfer Time	10ms(Max)		
THD	< 10%		
DC Input			
Nominal Input Voltage	12Vdc (*2 for 24Vdc, *4 for 48Vdc)		
Minimum Start Voltage	10Vdc		
Low Battery Alarm	10.5Vdc / 11Vdc		
Low Battery Trip	10Vdc / 10.5Vdc		
High Voltage Alarm	16Vdc		
Low Battery voltage recover	15.5Vdc		
Idle Consumption-Search Mode	< 25 W when Power Saver On		
Charger			
Output Voltage	Depends on battery type		
Charger Breaker Rating	10A~20A	20A~30A	40A
Max Charge Power Rate	1/3 Rating Power		
Battery Initial Voltage for Start Up	10-15.7V for 12V(*2 for 24V, *4 for 48V)		
Over Charge Protection Shutdown	15.7V for 12V (*2 for 24V, *4 for 48V)		
Remote Control	Yes (Optional)		
Bypass & Protection			
Input Voltage Waveform	Sine wave (Grid or Generator)		
Nominal Voltage	110Vac~120Vac	220Vac~230Vac	230Vac
Max Input AC Voltage	150VAC For 120Vac LV Mode;300VAC For 230Vac HV Mode;		
Nominal Input Frequency	50Hz or 60Hz (Auto detect)		
Low Freq Trip	47±0.3Hz for 50Hz, 57±0.3Hz for 60Hz		
High Freq Trip	55±0.3Hz for 50Hz, 65±0.3Hz for 60Hz		
Overload protection(SMPS load)	Circuit breaker		
Output Short circuit protection	Circuit breaker		
Bypass breaker rating	10A~30A	40A	50A~63A
Transfer switch rating	30amp for UL & TUV	40amp for UL	80amp for UL
Bypass without battery connected	Yes (Optional)		
Max bypass current	30amp	40amp	80amp
Solar Charger (Optional)			
Rated Voltage	12Vdc / 24Vdc / 48Vdc		
Solar Input Voltage Range	15-30Vdc / 30-55Vdc / 55-100Vdc		
Rated Charge Current	40 ~ 60A		
Rated Output Current	15A		
Self Consumption	< 10mA		
Bulk Charge	14.5V(default)	(*2 for 24Vdc, *4 for 48Vdc)	
Floating Charge	13.5V(default)		

PART IV / OFF-GRID & STORAGE INVERTER SUNWINS HYO SERIES



TECHNICAL DATA

	Sunwins HYO-1K/1.5K/2K/3K	Sunwins HYO-4K/5K/6K	Sunwins HYO-8K/10K/12K
Solar Charger (Optional)			
Equalization Charge	14V(default)	(*2 for 24Vdc, *4 for 48Vdc)	
Over Charge Disconnection	14.8V		
Over Charge Recovery	13.6V		
Over Discharge Disconnection	10.8 V(default)		
Over Discharge Reconnection	12.3V		
Temperature Compensation	-13.2mV/°C		
Ambient Temperature	0 ~ 40°C (Full load)	40 ~ 60°C (Derating)	

GENERAL DATA			
Dimension, W x H x D	415 x 388 x 200(mm)	415 x 488 x 200 (mm)	415 x 588 x 200(mm)
Weight	21~27 kg	38~49kg	60~70kg
Display	Status LEDs / Status LEDs+LCD		
Protection degree	IP 21		
Standard Warranty(years)	1 Year (Optional)		

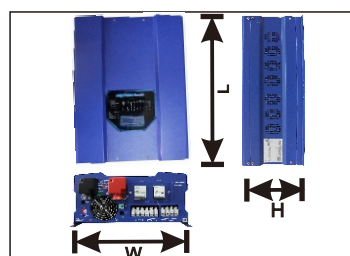
* Product specifications are subject to change without further notice

Version : 1.5

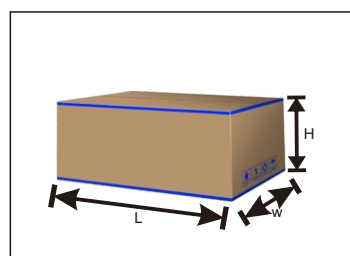
PACKING DATA

Model	N.W (kg)	G.W (kg)	pcs / box	Product Size L*W*H (mm)	Packing Size L*W*H(mm)
Sunwins HYO-1K	21+2.5	23+2.5	1pcs / box	388*415*200	550*520*310
Sunwins HYO-1.5K	22+2.5	24+2.5			
Sunwins HYO-2K	23+2.5	25+2.5			
Sunwins HYO-3K	27+2.5	29+2.5			
Sunwins HYO-4K	38+2.5	40+2.5	1pcs / box	488*415*200	650*520*310
Sunwins HYO-5K	48+2.5	50+2.5			
Sunwins HYO-6K	49+2.5	51+2.5			
Sunwins HYO-8K	60+2.5	62+2.5	1pcs / box	588*415*200	750*520*310
Sunwins HYO-10K	66+2.5	68+2.5			
Sunwins HYO-12K	70+2.5	72+2.5			
Standard Pallet Size	1200*1000*126				

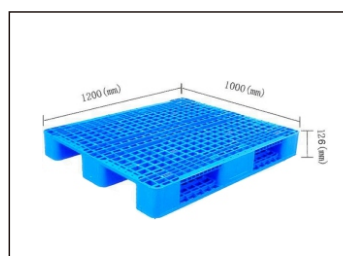
PACKING SIZES



Product Size



Product Packing Size

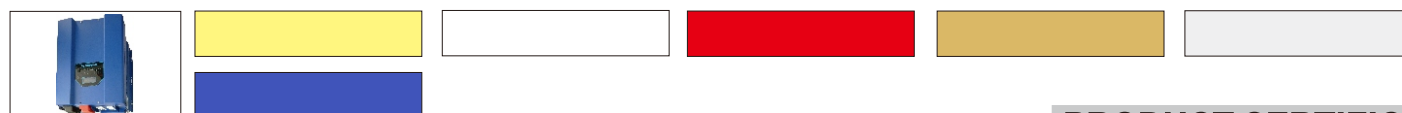


Standard Pallet Size



Pallet Packing Model

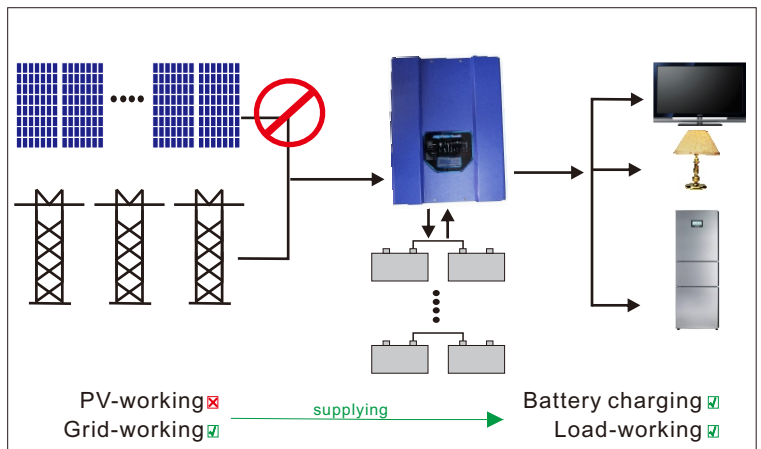
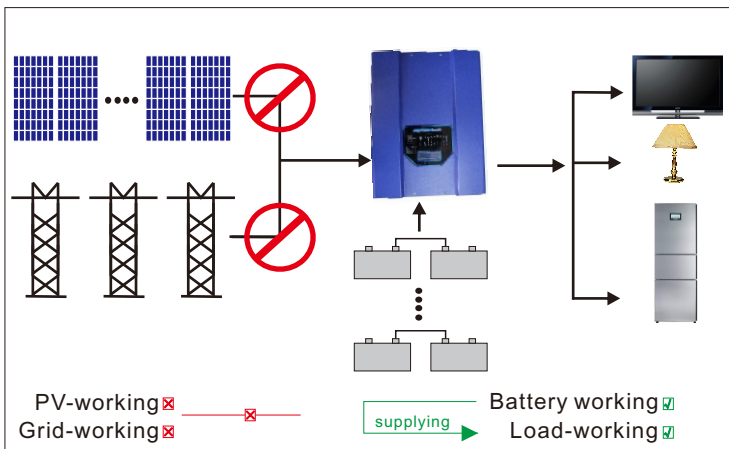
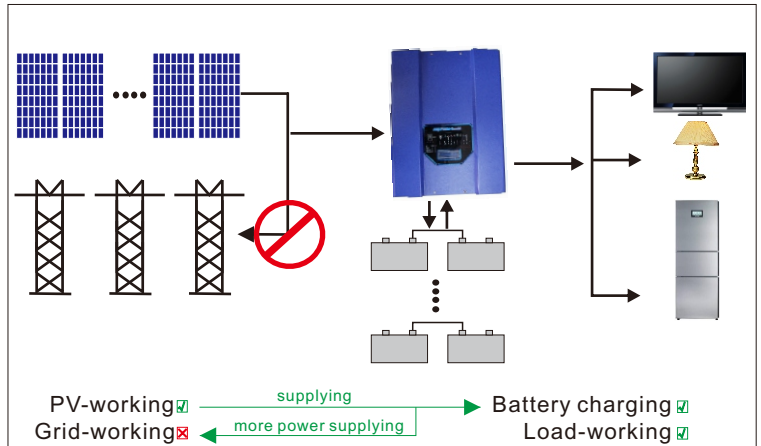
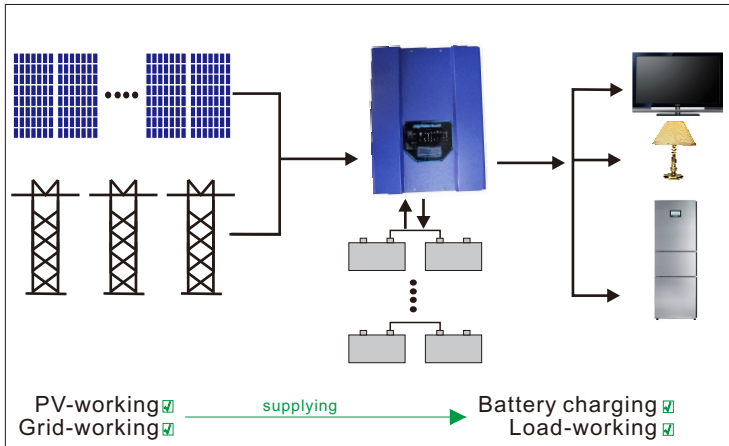
COLOR OPTIONS



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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