

Off Grid Solar Hybrid Inverter



HY3022P



HY1012P / HY5032PN



HY3022PN / HY5032VP / HY5032VPN

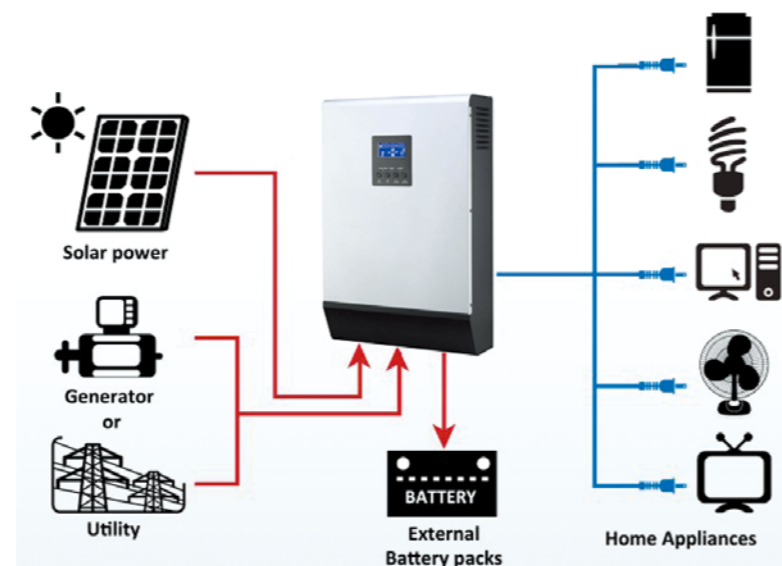
HY PWM Series

Equipped with PWM solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformer-less design provides reliable power conversion in compact size and with high efficiency. With aluminum housing, integrated interface system. It's light and handy, making installation easier. It's the ideal inverters for small PV plants, or individually for small houses both indoors and outdoors

Features:

1. Pure sine wave inverter
2. Built-in PWM solar charge controller
3. Selectable input voltage range for home appliances and personal computers
4. Selectable charging current based on applications
5. Configurable AC/Solar input priority via LCD setting
6. Compatible to mains voltage or generator power
7. Auto restart while AC is recovering
8. Overload and short circuit protection
9. Smart battery charger design for optimized battery performance
10. Cold start function

Solar System Connection



High Frequency Solar Inverter

Technical Specifications:

Model No.	HY1012P	HY3022P HY3022PN	HY5032VP HY5032VPN	HY5032PN	
Rated power	1000VA/800W	3000VA/2400W 3000VA/3000W	5000VA/4000W 5000VA/5000W	5000VA/4000W	
Parallel Capacity	No.	No.	No.	Yes, 9pcs.	
Input	voltage	230VAC			
	selectable voltage range	170-280VAC (for personal computers) 90-280VAC (for home appliances)			
	Frequency range	50Hz/60Hz (auto sensing)			
Output	AC voltage regulation (Batt. mode)	230VAC ± 5%			
	Surge power (5 seconds)	2000VA	6000VA	10000VA	10000VA
	efficiency (peak)	90%-93%	93%		
	transfer time	10ms(for personal computers); 20ms (for home appliances)			
	waveform	pure sine wave			
Battery & AC charger	battery voltage	12VDC	24VDC	48VDC	48VDC
	floating charge voltage	13.5VDC	27VDC	54VDC	54VDC
	overcharge protection	15VDC	31VDC/ 33VDC	63VDC	60VDC
	Max. AC charge current	20A	25A	60A	60A
	MAX PV array power	600W	1200W	2400W	2400W
	maximum PV array open circuit voltage	50VDC	80VDC	105VDC	105VDC
	Max. Solar charge current	50A	50A	50A	50A
	Max. Total charge current	50A	70A	110A	110A
	maximum efficiency	98%			
	standby power consumption	2W			
	Physical	Dimension, D*W*H(mm)	95*240*316	100*272*385	100*300*440
Net weight (kgs)		5KG	7KG	11KG	11KG
operating Environment	humidity	5%-95% relative humidity (non-condensing)			
	operating temperature	0°C -55°C			
	storage temperature	-15°C -60°C			

Approximate Back-Up Time Table:

Model	Load (VA)	Backup Time @12Vdc 100Ah(min)	Backup Time @12Vdc 200Ah(min)
1KVA	200	766	1610
	600	198	503
	1000	112	269
Model	Load (VA)	Backup Time @24Vdc 100Ah(min)	Backup Time @24Vdc 200Ah(min)
3KVA	300	449	1100
	1500	68	164
	3000	28	67

Note: Product specifications are subject to change without further notice.