## **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.lt's light and handy ,making installation easier.lt's the ideal inverters for small PV plants ,or individually for small houses both indoors and outdoors



- 1. Pure sine wave inverter
- 2. Built-in PWM solar charge controller
- 3. Selectable input voltage range for home appliances and personal
- 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





HY3022P

HY1012P / HY5032PN

### **Solar System Connection**



HY3022PN / HY5032VP / HY5032VPN

# External **Home Appliances Battery packs**

### **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 curren	20A	25A	60A	60A	
	MAX PV array power	600W	1200W	2400W	2400W	
	maximum PV array open circuit voltage	50VDC	80VDC	105VDC	105VDC	
	Max.Solarcharge current	50A	50A	50A	50A	
	Max. Total charge current	50A	70A	110A	110A	
	maximum efficiency	98%				
	standby power consumpsion	2W				
Physical	Dimension, D*W*H(mm)	95*240*316	100*272*385	100*300*440	100*300*440	
	Net weight (kgs)	5KG	7KG	11KG	11KG	
operating Environment	humidity	5%-95% relative humidity ( non-condensing)				
	operating temperature	0℃ -55℃				
	storage temperature	−15℃ −60℃				

### Approximate Back-Up Time Table:

Model	Load (VA)	Backup Time @12Vdc 100Ah(min)	Backup Time @12Vdc 200Ah(min)
	200	766	1610
1KVA	600	198	503
	1000	112	269

Model	Load (VA)	Backup Time @24Vdc 100Ah(min)	Backup Time @24Vdc 200Ah(min)
	300	449	1100
3KVA	1500	68	164
	3000	28	67

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