



- Rated power 1kw to 4kw
- Pure sine wave output
- Powerful charge rate up to 70Amp
- Built-in MPPT solar charge controller 40A/45A/60A
- MPPT efficiency max 98%
- Built-in pure copper UI transformer
- DIP Switch offer customized performance
- High Efficiency Design & “Power Saving Mode” to Conserve Energy
- Supporting RS232 communication, AGS, BTS port
- Remote control panel (optional)
- Compatible to generator

1. BAT“-"	8. GND
2. BAT“+”	9. PV1 input
3. RS232 communication port	10. AC input
4. Remote port	11. AC output
5. FAN	12.Function switch(SW1~SW5)
6. AC input/Bypass breaker	13.AGS
7. AC output breaker	14.BTS

The image displays two views of the HPS-1000 device. The left view is the front panel, which is dark grey and features a large circular fan on the left, a smaller circular fan on the right, and a red square component in the center. The right view is the rear panel, which is also dark grey and features a large rectangular ventilation grille, a row of five RJ45 ports, and a power input jack.

MODEL		PV30-1012		PV30-1024		PV30-1512		PV30-1524		PV30-2012		PV30-2024		PV30-3012		PV30-3024		PV30-3048		PV30-4024		PV30-4048	
		LMPK		LMPK		LMPK		LMPK		LMPK		LMPK		LMPK		LMPK		LMPK		LMPK		LMPK	
Nominal Battery System Voltage		12VDC		24VDC		12VDC		24VDC		12VDC		24VDC		12VDC		24VDC		48VDC		24VDC		48VDC	
INVERTER OUTPUT	Rated Power	1KW		1.5KW		2KW		3KW		4KW													
	Surge Rating (20ms)	3KW		4.5KW		6KW		9KW		12KW													
	Capable Of Starting Electric Motor			1HP						2HP													
	Waveform	Pure sine wave/ same as input (bypass mode)																					
	Nominal Output Voltage RMS	100V/110V/120VAC																					
	Output Frequency	50Hz/60Hz +/-0.3 Hz																					
	Inverter Efficiency(Peak)	>88%																					
	Line Mode Efficiency	>95%																					
	Power Factor	1.0																					
Typical Transfer Time	10ms(max)																						
AC INPUT	Voltage	120VAC																					
	Selectable Voltage Range	80~135VAC(For Personal Computers)																					
	Frequency Range	50Hz/60Hz (Auto sensing) 40-80Hz																					
BATTERY	Minimum Start Voltage	10.0VDC /10.5VDC for12VDC mode (*2 for 24VDC,)																		20.0VDC-21.0VDC /40.0VDC-42.0VDC			
	Low Battery Alarm	10.5VDC +/-0.3V for12VDC mode (*2 for 24VDC,)																		21.0VDC +/-0.6V /42.0VDC +/-1.2V			
	Low Battery Cutoff	10.0VDC +/-0.3V for12VDC mode (*2 for 24VDC,)																		20.0VDC +/-0.6V /40.0VDC +/-1.2V			
	High Voltage Alarm	16.0VDC +/-0.3V for12VDC mode (*2 for 24VDC,)																		32.0VDC +/-0.6V /64.0VDC +/-1.2V			
	High Battery Voltage Recover	15.5VDC +/-0.3V for12VDC mode (*2 for 24VDC,)																		31.0VDC +/-0.6V / 62.0VDC +/-1.2V			
	Idle Consumption-Search Mode	<25W when power saver on																		<50W when power saver on			
AC CHARGER	Output Voltage	Depends on battery type																					
	Charger AC Input Breaker Rating	10A				30A								40A									
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC,)																		31.4VDC/62.8VDC			
	Maximum Charge Current	35A		20A		45A		25A		65A		35A		75A		45A		30A		65A		35A	
BYPASS & PROTECTION	Input Voltage Waveform	Sine wave (grid or generator)																					
	Nominal Input Frequency	50Hz or 60Hz																					
	Overload Protection (SMPS Load)	Circuit breaker																					
	Output Short Circuit Protection	Circuit breaker																					
	Bypass Breaker Rating	10A				30A								40A									
	Max Bypass Current	30Amp																		40Amp			
SOLAR CHARGER	Maximum PV Array Power	600W		1200W		600W		1200W		600W		1200W		600W		1200W		2400W		1600W		3200W	
	Maximum PV Charge Current	40A																		45A		60A	
	DC Voltage	12V/24V atuo work																		24V/48V atuo work			
	MPPT Range @ Operating Voltage	16~100VDC																		32~145VDC @ 24V / 64~145VDC @ 48V			
	Maximum PV Array Open Circuit Voltage	100VDC																		145VDC			
	Maximum Efficiency	>98%																					
	Standby Power Consumption	<2W																					
	MECHANICAL SPECIFICATIONS	Mounting	Wall mount																				
Dimensions (W*H*D)		423*247*197mm																		597x247x197mm			
Net Weight (Solar CHG) kg		18.5		18.4		19.5		19.4		23.5		32.2		28.7		27		23.3		41.3		39.4	
Shipping Dimensions(W*H*D)		570*355*300mm																		743*372*312mm			
Shipping Weight (Solar CHG) kg		21.5		21.4		22.4		22.5		25.8		25.6		31.2		29.6		25.1		44.7		42.8	
OTHER	Operation Temperature Range	0°C to 40°C																					
	Storage Temperature	-15°C to 60°C																					
	Audible Noise	60dB MAX																					
	Display	LED+LCD																					
	Standard Warranty	1 year																					

Power Rate(w)	backup time(H) @1*100Ah	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
1000	0.4806	1.602	3.50304	7.6896	
2000	0.2136	0.4806	1.602	3.50304	7.6896
3000	0.1068	0.2848	0.8544	2.136	4.8416
4000		0.2136	0.4806	1.602	3.50304