

Hybrid inverter charger built in MPPT solar inverter

HES MPS solar inverter charger is an all-in-one package. It allows users to supply consumers with 230 V AC power, charges the battery with an integrated MPPT charge controller, and at the same time permits connection to a generator or an available electricity grid.

MPS multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.



True Pure sine wave inverter
Built-in MPPT solar charge controller
Selectable input voltage range for home use
Selectable charging current based on applications
Configurable AC/Solar input priority via LCD
Compatible with grid or generator
Auto restart while AC is recovering
Battery optimized by Smart battery charger
Cold start function
Parallel 9units max available for MPS 4K/5K



Protections

Low battery alarm, low battery shutdown, over charger, overload, over circuit



Applications

Home / Office / Farm etc

GRID



Certifications

CE ROHS ISO9001

OFF





Hybrid Power System















Specification

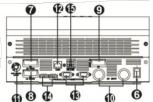
Specification	I						
Model No.		MPS1K-24	MPS3	K-24	MPS	5 5K	
Rated Power		1KVA/800W	3KVA/2400W		5KVA/4000W		
Input	Rated Voltage Voltage selectable range (for Personal Computer)	230VAC 170~280 VAC					
	Voltage selectable range (for home appliance) Frequency range	90~280 VAC 50Hz/60Hz (Auto sensing)					
	AC voltage Regulation	230V AC ± 5%					
Output	(Batt.Mode)	230V AC ± 5%					
	Surge Power	2000VA	6000VA		10000VA		
	Efficiency (Peak)	90%~93%	000	93			
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	Transfer time	10ms (for personal computer)					
	Wave form	20ms (for home appliance) Pure sine wave					
		24VDC	24VDC		48VDC		
Battery& AC Charger	Battery voltage	-	27VDC				
	Floating charge Voltage	27VDC	-		54VDC		
		31VDC	31VDC		60VDC		
	Maximum Charge Current	10A/20A	20A or 30A		10A/20A/30A/40A/50A/60A		
PV Input	Maximum PV Array Power	600W	600W	1500W	3000W/4000W		
	MPPT Range @ Operating Voltage (VDC)	30~66	30~66VDC	60V- 115VDC	60~115VDC		
	Maximum PV Array Open Circuit Voltage	75 VDC	75 VDC	145VDC	145VDC		
	Maximum Charge Current	25A	25A	60A	60A/80A		
	Maximum Efficiency	98%					
	Standby Power Consumption	2W					
Physical	Dimension, D×W×H (mm)	128×272×355	128×272×355		140×295×540		
	Net Weight (Kgs)	7.4	8.0	10	11.05	13.5	
Environmental	Humidity	5%~95% Relative Humidity (Non-condensing)					
	Operation	0°C~55°C					
	Temperature	1500~000					
	Storage Temperature	-15°C~60°C					
How to configure	Model	MPS1K-24	MPS3K-24 2400W		MPS 5K 4000W		
	Inverter Power	800W					
	Pmax. generated from solar charger	25Amp, 600W	25Amp, 600W	60Amp ,1500W	60Amp, 3000W	80Amp, 4000W	
	Best Panel Configuration	500Wp (250Wp×2pcs)	500Wp (250Wp × 2pcs/2pcs)	1500Wp (250Wp × 6pcs)	3000Wp (250Wp ×16pcs)		



Product introduction







- 1. LCD display
- 2. Status indicator
- 3. Charging indicator
- 4. Fault indicator
- 5. Function buttons
- 6. Power on/off switch
- 7. AC input
- 8. AC output
- 9. PV input
- 10. Battery input
- 11. Circuit breaker
- 12. RS232 communiction port
- 13. Parallel communication cable (only for parallel moddel)
- 14. Current sharing cable (only for parallel model)
- Dry contact

4K/5K Parallel

Parallel System Current Sharing Cable Diagram Parallel communication cabl

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HUSN ENERGY SOLUTIONS LIMITED

BLDG#2, ZN1 YUEYUAN FENGTAI DIST BEIJING 100161 CHINA 86-10-62410136

All specific cations and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market re-quirements and regulations. A solar power system consists of a controller, inverter and load end. Multiple controllers/inverters are shown to represent the wide range that HES has.