



HopePower

All in one Micro Solar Storage System

HP-300 / HP-500

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Combined design with PV input, mains input, and inverter output.
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Charging priority: PV > AC (supports hybrid charging)
Discharging priority: AC > PV > BT (supports PV/BT hybrid discharge)
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Bidirectional inverter with UPS seamless switching function, with a switching time of less than 20ms.
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MPPT charging, with higher charging efficiency.
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3.2V single string and single cell inverted to 220V, featuring higher stability.
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Supports 5V 1A USB output.

Technical Parameter

Model	HP-300	HP-500
Inverter/charger		
Rated AC Output Power	300W	500W
Output Voltage Waveform	Pure Sine Wave	
Output Voltage	185~230VAC 50Hz	
Low DC Warning Point	≤19%	
Low DC Cut-off Voltage	2.9Vdc	
Low DC Warning Return Voltage	> 20%	
Charging Power(Utility and solar together)	300W Max.	500W Max.
Bulk Charging Voltage	3.6Vdc	
Float Charging Voltage	3.5Vdc	
AC Input		
Nominal Input Voltage	230Vac	
Min. AC Input Voltage	90Vac ±5	
Max. AC Input Voltage	280Vac ±5	
Nominal Input Frequency	45~65Hz	
AC Charging Power	300W max.	500W max.
Solar Input		
Maximum PV charging current	10A	
Nominal PV Voltage	30Vdc	
PV Array MPPT Voltage Range	10Vdc~55Vdc	
MPPT tracking efficiency	99%	
Max. PV Array Open Circuit Voltage	56Vdc	
Solar Charging Power	300W max.	
Lithium Iron Battery		
Capacity	800Wh	1000Wh
Nominal Battery Voltage	3.2Vdc	3.2Vdc
Max.Charge Current	100A	140A
Max.Discharge Current	100A	170A
Operation Voltage Range	2.9Vdc~3.6Vdc	
Operation Temperature	-10°C~+50°C	
DC Output		
DC Output Socket	1 pcs 5V1A USB charger	
Display Function		
LED Indicator	4 pcs SOC indicators,1pcs working status indicator	
Protection		
Protection	Overcharge protection,Over Discharge protection,Overcurrent protection、 Shortcircuit protection、 Overtemperature protection	
Ambient		
Noise(dB)	<40dB (1 meter)	
Working Temperature	-10°C~+50°C	
Humidity	5~95%(no condensation)	
Sea Level(m)	≤2000	
Dimension		
LxWxH(products size)	300×134.7×258mm	300×149.7×258mm
LxWxH (package size)	362×322×190mm	362X322X205mm
Weight(NW Kg)	9.9Kg	10.8Kg
Weight(GW Kg)	11.1Kg	12.0Kg