



HopePower

All-in-one Micro Solar Storage System

HP-300 / HP-500 / HP-1000 / HP-2000



Combined design with PV input, mains input, and inverter output.



Charging priority: PV > AC (supports hybrid charging)
Discharging priority: AC > PV > BT (supports PV/BT hybrid discharge)



Bidirectional inverter with UPS seamless switching function, with a switching time of less than 20ms.



MPPT charging, with higher charging efficiency.



3.2V single string and single cell inverted to 230V, featuring higher stability.



Supports 5V 2A USB output.

Technical Parameter

Model	HP-300	HP-500	HP-1000	HP-2000
Inverter/charger				
Rated AC Output Power	300W	500W	1000W	2000W
Output Voltage Waveform	Pure Sine Wave			
Output Voltage	185~230VAC 50Hz			
Low DC Warning Point	≤19%			
Low DC Cut-off Voltage	2.9Vdc	2.9Vdc	6.0Vdc	12Vdc
Low DC Warning Return Voltage	>20%			
Charging Power(Utility and solar together)	300W Max.	500W Max.	1000W Max.	2000W Max.
Float Charging Voltage	3.5Vdc	3.5Vdc	7.0Vdc	14.4Vdc
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.	1000W max.	1500W max.
Solar Input				
Maximum PV charging current	10A	10A	15A	15A
Nominal PV Voltage	30Vdc	30Vdc	45Vdc	80Vdc
Solar Charge Type	MPPT			
PV Array MPPT Voltage Range	11Vdc~55Vdc			18Vdc~110Vdc
MPPT tracking efficiency	99%			
Max. PV Array Open Circuit Voltage	60Vdc	60Vdc	60Vdc	120Vdc
Solar Charging Power	300W max.	300W max.	550W max.	1200W max.
Lithium Iron Battery				
Capacity	800Wh	1000Wh	2000Wh	2624Wh
Nominal Battery Voltage	3.2Vdc	3.2Vdc	6.4Vdc	12.8Vdc
Max.Charge Current	100A	140A	100A	160A
Max.Discharge Current	100A	170A	160A	200A
Operation Voltage Range	2.9Vdc~3.6Vdc	2.9Vdc~3.6Vdc	6.0Vdc~7.3Vdc	12Vdc~14.6Vdc
Storage Temperature	-15°C~+60°C			
DC Output				
DC Output Socket	1 pcs 5V1A USB charger		1 pcs 5V2A USB charger	
Display Function				
LED Indicator	4 pcs SOC indicators,2pcs working status indicator			
Protection				
Protection	Overcharge protection, overdischarge protection, overcurrent protection, short circuit protection, overtemperature protection			
Ambient				
Noise(dB)	<40dB (1 meter)	<40dB (1 meter)	<50dB (1 meter)	<55dB (1 meter)
Working Temperature	-10°C~+40°C			
Humidity	5~95%(no condensation)			
Altitude	≤2000	≤2000	≤3000	≤3000
Dimension				
LxWxH(products size)	300×134.7×258mm	300×149.7×258mm	450×159.5×303mm	453×219.5×303mm
LxWxH (package size)	362×322×190mm	362X322X205mm	525X371X232MM	515X356X282MM
Weight(NW Kg)	9.9Kg	10.8Kg	19.16Kg	/
Weight(GW Kg)	11.1Kg	12.0Kg	20.86Kg	/