

HPPOWER

Smart Solar Storage Light Up African Communities



SHENZHEN HUAPU POWER & ELECTRICAL CO. LTD

About Our Company

Founded in 2011, HP-POWER focuses on R&D, production and service of smart power modules, energy-storage systems and related electrical products. Merging German industrial standards with Shenzhen-based technological innovation, we prioritize technology, quality and safety to enhance energy efficiency and reliability.



Specializing in core modules, system solutions, industrial power supplies and new-energy storage, we deliver high-precision, high-efficiency and safe energy products to global customers.

German craftsmanship · Chinese smart manufacturing for tomorrow.

HP-POWER: Precision-built quality, tech-enabled performance, guaranteed stable power output.

Our Factory



We operate manufacturing facilities in Shenzhen, Dongguan and Zhongshan of China, specializing in the production of portable power stations, solar-powered luminaires, as well as residential and commercial photovoltaic power supply systems.

Our Certifications



HP-BAT Series

10/16KWH

Low-Voltage Battery Pack



Ultra-high safety

Utilizes lithium iron phosphate (LFP) cells with long cycle life and high thermal stability



Multi-output interfaces

Supports AC (e.g., 220V/50Hz) and DC outputs, equipped with multiple ports (including sockets and USB) compatible with household appliances and small devices



Solar power integration

Compatible with mainstream household photovoltaic panels (e.g., 200W-600W specifications) for clean and reliable energy.



Power Your Home
Reliable backup for essential appliances



Solar Ready
Efficient charging from solar panels



Easy Mobility
Wheel design for convenient mobility



Safe & Durable
Built with LFP cells for long-lasting use



SPECIFICATIONS

MODEL	HP-BAT-A-10.2KWH
Rate voltage(Vdc)	51.2
Cell combination	16S2P
Rate capacity(AH)	200
Energy storage(KWH)	10.24
Max.charge current(A)	100A
Max.discharge current(A)	100A
Discharge cut-off voltage (VDC)	43.2
Charge cut-off voltage (VDC)	57.6
Product dimension L*W*H(mm)	680*440*178
Package dimension L*W*H(mm)	850*580*295
Net weight(about)(kg)	80.6
Gross weight(about)(kg)	86.7
Certificates	UN38.3,MSDS,CE-EMC

MODEL	HP-BAT-B-16.1KWH
Rate voltage(Vdc)	51.2
Cell combination(S1P)	16S1P
Rate capacity(AH)	314
Energy storage(KWH)	16.1
Standard/Max.charge current(A)	150A/200A
Max.discharge current(A)	200A
Discharge cut-off voltage(VDC)	43.2
Charge cut-off voltage(VDC)	57.6
Product dimension L*W*H(mm)	780*446*230
Net weight(kg)	113.5
Certificates	UN38.3,MSDS,CE-EMC

General configuration

Cycle life	25±2°C,0.5C/0.5C,EOL70%≥6000
Charge temperature	0°C~55°C@60±25%Relative Humidity
Discharge temperature	-20°C~55°C@60±25%Relative Humidity
Storage temperature	-20°C~50°C@60±25%Relative Humidity
IP class	IP20
Material system	LiFePO4
Case material	Metal
Case type	Rack Mount
Protocol(Optional)	CAN/RS485/RS232



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HP-HESS Series

A-5/10KWH

Main Battery Parameters



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SPECIFICATIONS

MODEL	HP-HESS-A-5KWH		HP-HESS-A-10KWH
RATED POWER	5000VA/5000w		6200VA/6200W
Nominal Voltage	230VAC		
Selectable Voltage Range	170~280VAC(PC)		
	90~280VAC(Appliances)		
Nominal Frequency	50/60Hz(Auto Sensing)		
OUTPUT			
Nominal Voltage	230VAC(Settable)		
Surge Power	10000VA	12400VA	
Frequency	50/60Hz		
Peak Efficiency(PVto INV)	96%		
Peak Efficiency(Battery to INV)	93%		
Transfer Time	10ms(UPS)		
	20ms(Appliances)		
Waveform	Pure Sine Wave		
Overload Protection	60s@105%~110%Load		
	10s@110%~140%Load		
	5s@≥140%Load		
BATTERY			
Battery Type	LiFePO4		
Battery Voltage	51.2VDC		
Capacity	100Ah	206Ah	
Battery Voltage Range	42~58.4V		
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Maximum PV Array Power	5500W	6500W	
Maximum PV Array Open Circuit Voltage	500VDC		
MPPT Operating Voltage Range	60VDC~450VDC		
Maximum PV Input Current	27A		
Maximum Solar Charge Current	100A	120A	
Maximum AC Charge Current	30A/100A		
Maximum Charge Current(PV+AC)	100A	120A	
PHYSICAL			
Product Dimension,D×W×H(mm)	450×280×705	600×340×705	
Packing Dimension,D×W×H(mm)	535×365×765	690×425×755	
Net Weight(kg)	60	94	
Communication Interface	RS232/RS485(BMS)/Bluetooth/WiFi		
Lithium Battery Activation	YES(By PVor Utility)		
Parallel Capacity	YES		
Type of PV Connection	MC4		
Type of AC Input Connection	IEC C14 Inlet/Circular Connector		
Type of Battery Expansion Connection	Circular Connector(Optional) 30A Circular Connector×1		
Type of AC Output Connection	10A CN/13A UK/16A EU/Ect.Standard Socket×3		
Type of DC Output Connection	USB:18W×4,Type C:100W×1,60W×1		
	DC:12V10A×1,12V5A×2		
OPERATING ENVIRONMENT			
Operating Temperature Range	Charge:0℃~50℃ Discharge:-10~50℃		
Storage Temperature	-20℃~25℃		
Humidity	5%~95%Relative Humidity(Non-condensing)		



HP-HESS Series

B-6/8/11KW-16KWH

Main Battery Parameters



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Utilizes lithium iron phosphate (LFP) cells with long cycle life and high thermal stability



Multi-output interfaces

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SPECIFICATIONS

MODEL	HP-HESS-B-6KW	HP-HESS-B-8KW	HP-HESS-B-11KW
RATED POWER	6200VA/6200W	8200VA/8200W	11200VA/11200W
RATED Capacity	16kWh	16kWh	16kWh
INPUT			
Nominal Voltage	230V/AC		
Selectable Voltage Range	170 ~ 280V/AC(LPS) 90 ~ 280V/AC(Appliances)		
Nominal Input Frequency	50/60Hz(Auto Sensing)		
OUTPUT			
Nominal Voltage	230V/AC(Selectable)		
Surge Power	12400VA	16400VA	22400VA
Frequency	50/60Hz		
Peak Efficiency(PV to INV)	96%		
Peak Efficiency(Battery to INV)	93%		
Transfer Time	10ms(LPS) 20ms(Appliances)		
Waveform	Pure Sine Wave		
Overload Protection	60s@105% ~ 110%Load 10s@110% ~ 140%Load 5s@≥ 140%Load		
BATTERY			
BatteryType	LiFePO4	LiFePO4	LiFePO4
BatteryVoltage	51.2VDC	51.2VDC	51.2VDC
Capacity	314Ah	314Ah	314Ah
Battery Voltage Range	40 ~ 58.4V	40 ~ 58.4V	40 ~ 58.4V
Maximum Battery Discharge Current	128A	157A	157A
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Maximum PV Array Power	6500W	13000W(6500W×2)	13000W(6500W×2)
Maximum PV Array Open Circuit Voltage	500VDC	500VDC	500VDC
MPPT Operating Voltage Range	60VDC ~ 450VDC	60VDC ~ 450VDC	60VDC ~ 450VDC
Maximum PV Input Current	27A	27A×2	27A×2
Maximum Solar Charge Current	120A	140A	157A
Maximum AC Charge Current	100A	120A	140A
Maximum Charge Current(PV+AC)	120A	140A	157A
PHYSICAL			
Product Dimension,D×W×H(mm)	700×310×1100	700×310×1100	700×310×1100
Packing Dimension,D×W×H(mm)	795×400×1260	795×400×1260	795×400×1260
Net Weight(kg)	125	130	130
Communication Interface	RS232(Inverter)/CAN(BMS)/Bluetooth/WiFi		
Lithium Battery Activation	YES(By PV or Utility)		
OPERATING ENVIRONMENT			
Operating Temperature Range	Charge:0℃~ 50℃ Discharge:-20℃ ~ 50℃		
Storage temperature	Temperature:0 ~ 35℃[Storage:6 months @50C,20% ~ 50%] Temperature:-15 ~ 0℃,35 ~ 45℃[Storage:1 months @50C,20% ~ 50%]		
Humidity	10% ~ 85%Relative Humidity(Non-condensing)		



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HP-HESS Series

C-5/10/15/20 KWH

Main Battery Parameters



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Multi-output interfaces

Supports AC (e.g., 220V/50Hz) and DC outputs, equipped with multiple ports (including sockets and USB) compatible with household appliances and small devices



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SPECIFICATIONS

MODEL	HP-HESS-C-5KWH	HP-HESS-C-10KWH	HP-HESS-C-15KWH	HP-HESS-C-20KWH
RATED POWER	6200VA/6200W			
INPUT				
Nominal Voltage	230VAC			
Selectable Voltage Range	170~280VAC(UPS) 90~280VAC(Appliances)			
Nominal Frequency	50/60Hz(Auto Sensing)			
OUTPUT				
Nominal Voltage	230VAC(Settable)			
Surge Power	12400VA			
Frequency	50/60Hz			
Peak Efficiency(PV to INV)	96%			
Peak Efficiency(Battery to INV)	93%			
Transfer Time	10ms(UPS) 20ms(Appliances)			
Waveform	Pure Sine Wave			
Overload Protection	60s@105%~110%Load 10s@110%~140%Load 5s@≥140%Load			
BATTERY				
Battery Type	LiFePO4			
Battery Voltage	51.2VDC			
Combination Method	1651P×1	1651P×2	1651P×3	1651P×4
Capacity	100Ah 200Ah			
Energy Storage(kWh)	5.12	10.24	15.36	20.48
Battery Voltage Range	42.0V~58.4V			
SOLAR CHARGER&AC CHARGER				
Solar Charger Type	MPPT			
Maximum PV Array Power	6500W			
Maximum PV Array Open Circuit Voltage	500VDC			
MPPT Operating Voltage Range	60VDC~450VDC			
Maximum PV Input Current	27A			
Maximum Solar Charge Current	120A			
Maximum AC Charge Current	100A			
Maximum Charge Current(PV+AC)				
PHYSICAL	640×190×840	640×190×1180	640×190×1520	640×190×1860
Product Dimension,D×W×H(mm)	Inverters:726×190×440 Battery:760×460×340			
Net Weight(kg)	60	110	160	210
Display Configuration	Segment LCD/Segment LCD+RGB LED /5"Color LCD/7"Color LCD			
Communication Interface	RS232/RS485(BMS)/Bluetooth/WIFI			
Lithium Battery Activation	YES(By PV or Utility)			
Parallel Capacity	YES(Optional)			
Type of AC Output Connection	Terminal Block×1 10A Universal Socket/13A UK/16A EU/ect. Standard Socket×1			
OPERATING ENVIRONMENT				
Operating Temperature Range	Charge:0°C~50°C Discharge:-30~50°C			
Storage Temperature	-20°C~25°C			
Humidity	5%~95%Relative Humidity(Non-condensing)			



HP-HESS Series

D-9/14/19/24 KWH

Main Battery Parameters



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Utilizes lithium iron phosphate (LFP) cells with long cycle life and high thermal stability



Multi-output interfaces

Supports AC (e.g., 220V/50Hz) and DC outputs, equipped with multiple ports (including sockets and USB) compatible with household appliances and small devices



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SPECIFICATIONS

MODEL	HP-HESS-D-9.6KWH	HP-HESS-D-14KWH	HP-HESS-D-19KWH	HP-HESS-D-24KWH
Rate voltage(Vdc)	192	288	384	480
Cell combination(51P)	3051P*25	3051P*35	3051P*45	3051P*55
Rate capacity(AH)	50			
Energy storage(KWH)	9.6	14.4	19.2	24
Cycle life	25±2°C, 0.5C/0.5C, EOL70%≥6000			
Max.charge current(A)	50			
Max.discharge current(A)	50			
Discharge cut-off voltage(VDC)	162	243	324	405
Charge cut-off voltage(VDC)	216	324	432	540
Charge temperature	0°C~50°C@60±25%Relative Humidity			
Discharge temperature	-20°C~50°C@60±25%Relative Humidity			
Storage temperature	-40°C~50°C@60±25%Relative Humidity			
IP class	IP65			
Material system	LiFePO4			
Case material	Metal			
Case type	Stand Stack			
Product dimension L*W*H(mm)	680*185*1035	680*185*1425	680*185*1815	680*185*2205
Package dimension L*W*H(mm)	780*295*450*3	780*295*450*4	780*295*450*5	780*295*450*6
Net weight(kg)	14+49*2	14+49*3	14+49*4	14+49*5
Gross weight(kg)	21+53*2	21+53*3	21+53*4	21+53*5
Protocol(Optional)	CAN/RS485			
Monitoring	Bluetooth/WLAN Optional			
Certificates	UN38.3, MSDS, CE-EMC, IEC62619, 63056			



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HP-CESS Series

A-64KWH

Main Battery Parameters



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SPECIFICATIONS

MODEL	HP-CESS-A-64KWH
Battery Parameters	
Battery Type	LFP
Rated Energy	64.3kWh
Rated Voltage	51.2V
Voltage Range	44.8 ~ 57.6V
PV Parameters	
Max.PV Array power	39kW
MPPT Voltage Range	60Vdc ~ 450Vdc
Max.Charging Current	480A(PV+ Battery)
AC Side Parameters	
Rated Power	33kW
Rated Grid Voltage &Frequency	AC400V/230V&50/60Hz
Input Voltage Range	295-485VAC(UPS) 156-485VAC(Load Side)
Peak Efficiency	96%
Overload Capacity	60s@105%~110%Load
	10s@110%~140%Load
	5s@≥140%Load
Other Parameters	
Weight	≤650kg
Dimensions(W*D*H)	750*850*2000mm
Cooling Method	Air cooling
Operating Temperature	-20~+55°C
Enclosure Protection Rating	IP54
Fire Protection Configuration	PACK Class+Aerosol



HP-CESS Series

B-120KWH

Main Battery Parameters



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Utilizes lithium iron phosphate (LFP) cells with long cycle life and high thermal stability



Multi-output interfaces

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SPECIFICATIONS

MODEL	HP-CESS-B-120KWH
Battery parameters	
Battery Type	LFP
Number of battery packs	6
Rated voltage	384V
Voltage range	300~438V
Rated energy	120.5kWh
Max continuous charging and discharging current	200A
Discharge Depth	90%
Cycle life	6000 times
PV parameters	
Max PV input power	120kW
Rated input voltage	600VDC
Max input voltage	1000VDC
MPPT voltage range	150~950VDC
PV input current	42A*10
AC side parameters	
AC rated output power	60kW
AC Max output power	60kVA
AC rated input/output current	157.5A
Isotransformer	Transformerless
Voltage	3L/N/PE:230/400V
Frequency	50/60Hz
THDi	≤3%
Power Factor	0.8 leading to 0.8 lagging
System parameters	
Dimension(W*H*D)	W750*H2095*D1200mm
Weight	about 1498kg
Communication	CAN/RS485/WIFI/ETH
Design Life	10 years+
Expansion	Support in parallel
Enclosure protection rating	IP54
Cooling	Air cooling
Operation temperature	Charging:0~50°C/Discharge:-20~50°C
Humidity	10%~95%RH
Altitude	<2000m



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SOLAR INVERTER

HP 2012/3624/6248/12048

Main Battery Parameters



SPECIFICATIONS

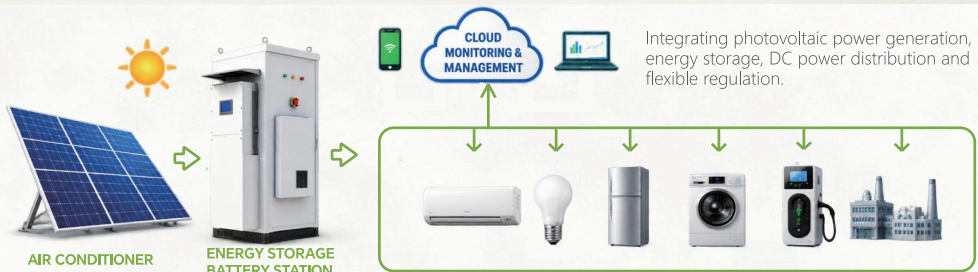
	Model	HP2012MH	HP3624MH	HP6248MH	HP12048MH
AC Input voltage	AC Input	220/230/240VAC			
	Input Voltage Range	90~280VAC ±3V(Normal Mode)170~280VAC ±3V(UPS/UPS Mode)			
Output	Input Frequency	50/60Hz			
	Rated Power	1600W	3600W	6200W	11000W
	PV Inverter Output Power	2000W	3600W	6200W	12000W
	Output Voltage	220/230/240VAC*5%			
	Output Frequency	50/60Hz±0.1%			
	Output wave	Pure Sine Wave			
	Transfer Time	≤10ms(UPS)/≤20ms(INV)			
Grid-connected Operation	Peak Power	3200VA	7200VA	12400VA	24000VA
	Overload Ability	Battery Mode:ns@105%~150%Load 2s@150%~200%Load 400ms@≥200%Load			
	Output Voltage	220/230/240VAC			
	Grid Voltage Range	100~280VAC			
	Grid Frequency Range	47~53.1Hz/57~62.1Hz			
Battery	Rated Output Current	8.7A	15.7A	26.9A	52.2A
	Power Factor Range	≥0.99			
	Peak Efficiency(DC/AC)	98%			
	Rated Voltage	12Vdc	24Vdc	48Vdc	
Charger	Constant Charging Voltage(Configurable)	14.1Vdc	28.2Vdc	56.4Vdc	
	Foat Charging Voltage(Configurable)	13.5Vdc	27Vdc	54Vdc	
	PV/PV Charging Mode	MPPT	MPPT	MPPT	MPPT
	PVMax PV Input Power	3000W	5000W	8500W	2×8500W
	MPPT/MPPT Input Voltage Range	60~500Vdc	60~500Vdc	60~500Vdc	90~500Vdc
	Vmp/Optimal Vmp Range	300~400Vdc	300~430Vdc	360~430Vdc	360~430Vdc
	PVMax PV Input Voltage	500Vdc	500Vdc	500Vdc	500Vdc
	PVMax PV Input Current	15A	15A	27A	27A/27A
	PVMax PV Charging Current	100A	120A	120A	150A
	Max AC Charging Current	80A	100A	100A	150A
Display	Max Charging Current	100A	120A	120A	150A
	LCD/CO Interface	Con display operating mode/load/input/output 2400 Baud Rate 2400			
Interface	RS-232				
	Expansion Slot Communication Interface	BMS - WiFi - Lithium Battery BMS Communication Card/WIFI			
Ambient Temperature	Max PV input Voltage	Not support Parallel			support Parallel
	Operating Temperature	-10°C~50°C			
	Operating Environment Humidity	-10°C~60°C			
	Storage Temperature	20%~90%Non Condensing			
Noise		≤50dB			



PV + ENERGY STORAGE

ALL-IN-ONE SYSTEM

Reliable Power. Anywhere in Africa



Lower Electricity Costs

Reduce your energy bills significantly



Reliable & Stable Power

Ensure uninterrupted power day and night



Easy to Install & Expand

Modular design for quick installation and future expansion



Smart Monitoring

Real time monitoring and remote management



Built for Africa

Designed for harsh environments built to last



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HPPOWER

Help every family enjoy unrestricted electricity

Contact Us Customer Service | Technical Service | After-sales Support

SHENZHEN HUAPU POWER & ELECTRICAL CO. LTD | HP POWER TECHNOLOGY CO. LTD

Official Website : www.hppowertech.com.ng

Apo legislative quaters zone E 1427 Umaru Mohammed Road, Gudu, Abuja 900110, Federal Capital Territory
+234 9066768657 Mr Suleiman

Gidan Dantata, yankura opposite galadima road, murtala muhammad way, kano
07025329289 Tony Luo

122 Joel Ogunnaike St, Ikeja GRA, Lagos, Nigeria
08066302232 Ken Liu