



**Professional manufacturer  
of energy storage system  
and customized Li-ion battery.**



## **Quality Manufacturing by Honcell**

High-level safety, high cycling, high endurance, high cost-effectiveness

# CONTENTS



Company Presentation

01

---



Battery cells and Customized  
Battery Pack Series

04

---



Household Energy Storage

06

---



Portable Power Station

13

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# Company Profile

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Honcell Energy Co., Ltd., founded in the autumn of 2010 in Shenzhen, is a clean energy company dedicated to the development, manufacturing, and marketing of lithium-ion polymer batteries (Li-Po Battery), Lithium Iron Phosphate (LiFePO<sub>4</sub>) batteries, energy storage systems, and related products for consumer, household, industrial, medical, and automotive applications, catering to their portable power needs. Our production lines encompass high-capacity batteries, standard consumer batteries, high-drain batteries, high and low-temperature batteries, power batteries, and more. We are committed to delivering top-notch, safe, and environmentally-friendly clean energy solutions to our customers. Honcell Energy offers a comprehensive range of consultations and post-delivery services to our customers.

Our factory has achieved compliance with ISO9001, ISO14000, and ISO14001 standards. Our batteries have obtained certifications including UL, CB, IEC62133, CE, FCC, PSE, KC, CQC, UN38.3, RoHS, etc. Honcell's batteries find extensive application in various fields, such as household energy storage, lead-acid battery replacements, electric tools, electric bikes, smart homes, the medical industry, and industrial devices.



## Development History

- 2010 Shenzhen Honcell Energy Co., Ltd. established
- 2013 Purchased downtown sales office; started LiFePO<sub>4</sub> tech R&D
- 2016 Honcell's domestic brand went public
- 2019 Honcell registered trademark in the USA
- 2020 85% production automation
- 2022 The expansion of energy storage production line

Work together, create the future together.





## Factory Show

Honcell's automated production line for Lithium-ion battery and energy storage system achieves an impressive 85% automation rate.



## Certificates and Honorary Qualifications



## Battery Cells and Customized Battery Pack Series

### Customized battery series

Widely used in fields such as electric tools, electric bicycles, household appliances, medical devices, lighting fixtures, etc.



### Application Area



E-bike



Electric tools



Vacuum Cleaners

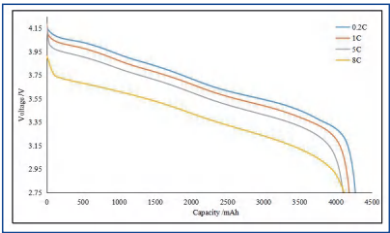


Solar energy street lamp

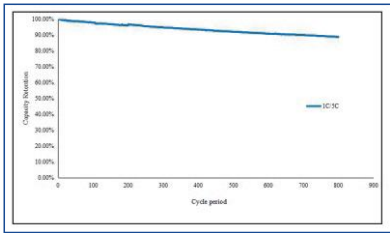


Security equipment

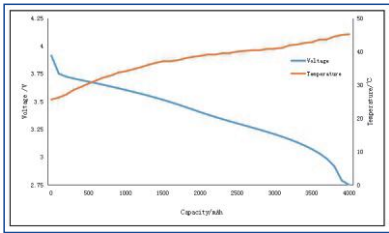
# HCC21700 4000mAh 5C



Multiple Discharge Characteristic



Cycle(5C) Characteristic



Temperature Rise Characteristic of 5C Discharge

## Battery Cell Model list and Parameters

No.	Material	Model	Dimension (mm)	Capacity	Weight	Discharge Rate	Continuous discharge current
1	NCM	HCC18650	18.5*65.1	2000/2200/2500/2600mAh	43.8/44.6/46.0/46.6g	3C	6A/6.6A/7.5A/7.8A
2	NCM	HCC18650	18.5*65.1	2000/2200/2500/2600mAh	44.3/44.6/46.5/46.8g	5C	10A/11A/12.5A/13A
3	NCM	HCC18650	18.5*65.1	2000/2200/2500mAh	45.2/45.5/46.8g	10C	20A/22A/25A
4	NCM	HCC18650	18.5*65.1	3000/3200mAh	46.0/48.0g	3C	9A/9.6A
5	NCM	HCC21700	21.2*70.5	4000/4500/5000mAh	64.0/64.2/64.3g	5C/3C/3C	20A/13.5A/15A
6	LFP	HCF18650	18.5*65.1	1800/2000mAh	43.3/43.5g	3C	5.4A/6A
7	LFP	HCF26650	26.5*65.1	4000/5000mAh	90.0/100g	3C	12A/15A
8	LFP	HCF26700	26.5*70.5	5000mAh	100g	3C	15A
9	LFP	HCF32700	32.4*70.1	6000mAh	145g	3C	18A
10	LFP	HCF32140	33.0*14.0	15000mAh	293g	3C	45A

※ Please refer to specifications for more details



# Household Energy Storage All-in-one Series



	Model	HCS25120/51100/51150/51200-AI
Battery Data	Nominal Voltage	25.6/51.2/51.2/51.2V
	Nominal Capacity	120/100/150/200Ah
	Energy	3072/5120/7680/10240WH
	BMS	8S100A/16S100A/16S150A/16S 200A
	Charge Temp. Protection	-5° C to 60° C
	Discharge Temp. Protection	-20° C to 65° C
Inverter Data	Rate Power	3000/5000/8000/10000 VA W
	Monitoring Option	WiFi
	Output Voltage	220-230-240VAC
	Peak Efficiency	0.92
	Inverter Parallel	None/Max 6units/Max 6units/Max 6units
Solar Charger& AC Charger	Max.PV Array Open Circuit	500VDC
	altx.PV Array Power	4000/5200/11000/11000W (5500Wx2)
	Operating Voltage MPPT Range	125~425Vdc
	Max.Solar Charge current	80A/80A/200A/200A
	Max.AC Charge Current	80A/60A/100A/120A
	Frequency Range	50Hz/60Hz (Autosensing)

Household Energy Storage  
All-in-one Series

HCS -TH3000/  
HCS -TH3500/HCS -TH5500



Battery	Nominal Voltage	25.6Vdc/25.6Vdc/51.2Vdc
	Voltage Range	22.4-28.8Vdc/22.4-28.8Vdc/44.8-57.6Vdc
	Capacity	2.56KWh/3.072KWh/5.12KWh
	Max. Discharge Rate	1.5C
	Max. Charge Rate	1C
	Battery Type	Li-ion(LFP)
AC Output	Rated Power	3000W/3500W/5500W
	Current Regulating Power	6000W/7000W/11000W
	Output Voltage	220/230/240Vac
	Output Current	13.7A/15.9A/25A
	Rated Frequency	50/60HZ
	VTHD	<3%
	Output Waveform	Pure Sine Wave
	Output Type	AC Teminals
	Efficiency	93%
AC Input	AC Input Voltage Range	170~280VAC
	AC Input Frequency	50/60HZ
	Max. AC Charging Current(Battery)	25A(0-25A)/60A(0-60A)/80A(0-80A)Adjustable
PV Input	Max. PV Power	1200W/3000W/5500W
	Max. PV Voltage	115Vdc/500Vdc/500Vdc
	MPPT Working Voltage Range	36-80Vdc/120-450Vdc/120-450Vdc
	Max. PV Charging Curreet(Battery)	40A/100A/100A
Operation Condition	Working Temperature	0-50℃
	Storage Temperature	-15-60℃
	Humidity	5%-95%
	Cooling Down Strategy	Fan
	Installation Method	Wall-Mounted
	N.W.	36kg/41kg/57kg
	Product Size.	455*170*700mm/530*170*835mm/530*170*835mm
	Packaging	Carton
	G.W.	42.2kg/49.5kg/65.5kg
	Carton Size	830*550*280mm/960*630*280mm/960*630*280mm
	IP Rating	IP21
	IP Rating	USB/RS232; WIFI/RS485; WIFI/RS485
	Warranty	5years



Portable Energy Storage Series  
HCS 3000-CP/HCS 600-CP

Nominal Voltage	51.8Vdc
Voltage Range	42~58.8Vdc
Capacity	3KWh/6KWh
Max. Discharge Rate	1.5C
Max. Charge Rate	1C
Output Voltage	220/230/240Vac
Output Current	16A
Rated Frequency	50/60HZ
VTHD	<3%
Output Waveform	Pure Sine Wave
Output Type	AC Terminals
Efficiency	93%
AC Input Voltage Range	230VAC
AC Input Frequency	50/60HZ
Max. AC Charging Current (Battery)	0-20 A
Max. PV Power	3 KW
Max. PV Voltage	18 Vdc
Max. PV Charging Current(Battery)	100A
Battery Type	Ternary lithium battery
Storage Temperature	-15~65°C
Product Size	500*440*180mm/500*460*230mm
Weight	19.5kg/33.3kg
IP Rating	IP20
Communication Method	WIFI Bluetooth/RS485
Warranty	3 years



Portable Energy Storage Series  
HCS -T5/HCS -T35/HCS -T730

Nominal Voltage	51.2Vdc/25.6Vdc/25.6Vdc
Voltage Range	44.8~57.6Vdc/22.4~28.8Vdc/ 22.4~28.8Vdc
Capacity	5.12KWh/3.456KWh/7.168KWh
Max. Discharge Rate	1.5C
Max. Charge Rate	1C
Output Voltage	220/230/240Vac
Output Current	25A
Rated Frequency	50/60HZ
VTHD	<3%
Output Waveform	Pure Sine Wave
Output Type	AC Terminals
Efficiency	93%
AC Input Voltage Range	170-280VAC
AC Input Frequency	50/60HZ
Max. AC Charging Current	80A(0~80A)Adjustable
Max. PV Power	5.5KW
Max. PV Voltage	500Vdc
Max. PV Charging	100A
Battery Type	li-ion (LFP)
Storage Temperature	-15~65°C
Product Size	735*425*600mm/735*425*600mm/ 830*550*280mm
Weight	68.5kg/53kg/81.5kg
IP Rating	IP21
Communication Method	WIFI/RS485; WIFI/RS485; USB/RS232
Warranty	5years



## Lead Acid Replacement Storage Battery 12V

### HCS 1270-LA

Capacity: 70AH/300AH

Nominal Voltage: 12.8V

Charge Voltage (V): 14.4 V

Charge Current: 21A (Max. : 35A) /  
30A(Max. : 50A)

Discharging Current: 25A (Max. : 70A)/  
50A (Max. : 100A)

Discharging Cut-off Voltage (V): 10.8V

Nominal Current: 0-70A/ 0-100A

Charging Time: 0.5C 2h/50A 5h

Over-Temperature Protection: 65°C

Charge Temperature: 0°C to 55°C

Discharge Temperature: -20°C to 60°C

Storage Temperature: 0°C to 40°C"



## Lead Acid Replacement Storage Battery 24V

### HCS 24200-LA

Capacity: 200AH

Nominal Voltage: 25.6V

Charge Voltage (V): 28.8V

Charge Current: 30A (Max. : 50A)

Discharging Current: 50A (Max. : 100A)

Discharging Cut-off Voltage (V): 21.6V

Nominal Current: 0-100A

Charging Time: 50A 4h

Over-Temperature Protection: 65°C

Charge Temperature: 0°C to 55°C

Discharge Temperature: -20°C to 60°C

Storage Temperature: 0°C to 40°C

Cabinet Type Storage Battery 48V

HCS 48100-CT/HCS 48200-CT



Capacity: 100AH/200AH

Nominal Voltage: 48V

Charge Voltage (V): 54V

Charge Current: 30A (Max. : 50A)

Discharging Current: 50A (Max. : 100A)

Discharging Cut-off Voltage (V): 43.5V

Nominal Current: 0-100A

Charging Time: 0.5C 2h/50A 4h

Over-Temperature Protection: 65°C

Charge Temperature: 0°C to 55°C

Discharge Temperature: -20°C to 60°C

Storage Temperature: 0°C to 40°C



Wall Mounted Storage Battery 51.2V

HCS 51200-WM

Capacity: 200AH

Nominal Voltage: 51.2V

Charge Voltage (V): 57.6V

Charge Current: 30A (Max. : 50A)

Discharging Current: 50A (Max. : 100A)

Discharging Cut-off Voltage (V): 46.4V

Nominal Current: 0-100A

Charging Time: 50A 4h

Over-Temperature Protection: 65°C

Charge Temperature: 0°C to 55°C

Discharge Temperature: -20°C to 60°C

Storage Temperature: 0°C to 40°C

Size: (L)700\*(W)450\*(H)266mm;

Shell Material: SPCC

Weight (KG): 85kg;

Package: Wooden box





## Low-voltage Stacked Modules HCS 51300-S1

Capacity: 300AH

Nominal Voltage: 51.2V

Charge Voltage (V): 57.6V

Charge Current: 30A (Max.: 50A)

Discharging Current: 50A (Max.: 100A)

Discharging Cut-off Voltage (V): 46.4V

Nominal Current: 0-100A

Charging Time: 50A 4h

Over-Temperature Protection: 65°C

Charge Temperature: 0°C to 55°C

Discharge Temperature: -20°C to 60°C

Storage Temperature: 0°C to 40°C



## Floor Standing Storage Battery HCS 51400-FC

Capacity: 400AH

Nominal Voltage: 51.2V

Charge Voltage (V): 57.6V

Charge Current: 30A (Max.: 50A)

Discharging Current: 50A (Max.: 100A)

Discharging Cut-off Voltage (V): 46.4V

Nominal Current: 0-100A

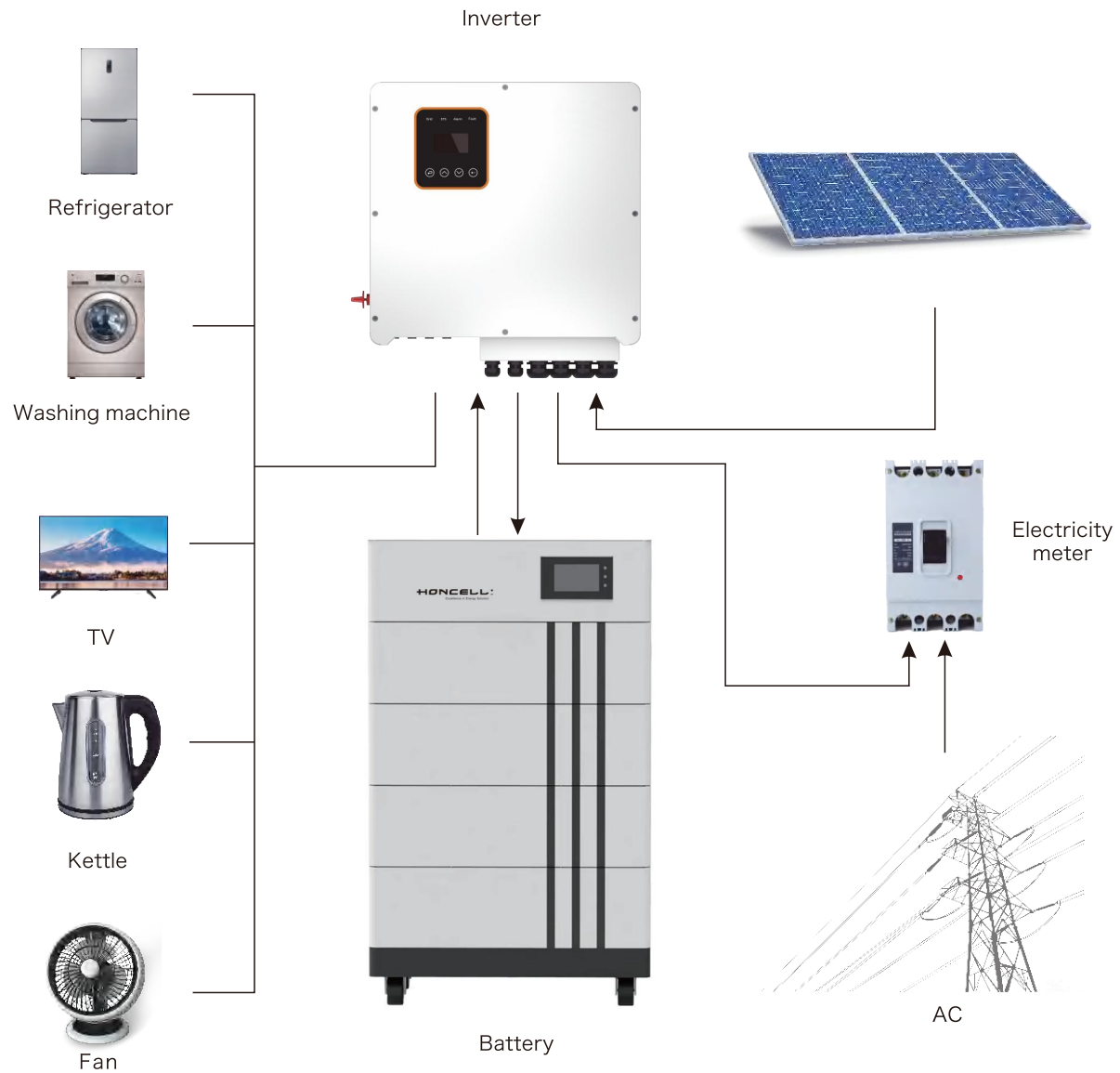
Charging Time: 0.5C 2h

Over-Temperature Protection: 65°C

Charge Temperature: 0°C to 55°C

Discharge Temperature: -20°C to 60°C

Storage Temperature: 0°C to 40°C



## Portable Power Station



HCS 300P



HCS 600P



HCS1000P

Product Parameters

Basic Specifications	Model	HCS 300P	HCS 600P	HCS 1000P
	Dimension (mm)	187*186*151	280*190*138	325*186*151
	Inverter Type	Pure sine wave	Pure sine wave	Pure sine wave
	Solar Charge Controller	MPPT	MPPT	MPPT
	Casing Material	Aluminum+ PC	Aluminum+ PC	Aluminum+ PC
	Gross Weight (kg)	4.1	7.6	9.8
	Net Weight (kg)	3.6	6.4	8.3
Battery	Type	Lithium	Lithium	Lithium
	Capacity	303.68Wh	607Wh	1016Wh
Charging Method (Input)	Solar Panel	18-24V 100W Max	18-24V 160W Max	18-24V 200W Max
	AC Adapter	20V 65W Max	20V 120W Max	20V 120W Max
	Car Cigarette Lighter	12V/10A	12V/10A	12V/10A
Output	AC	300W (500W Max)	600W (1000W Max)	1000W (1500W Max)
	DC	12V/6A 5521port	12V/6A 5521port	12V/6A 5521port
	Car Cigarette Lighter	12V/10A	12V/10A	12V/10A
	USB	C:PD100W A:5V/2.4A	C:PD100W A:5V/2.4A	C:PD100W A:5V/2.4A
	LED Light	5W/10W/SOS flash	5W/10W/SOS flash	5W/10W/SOS flash





# HONCELL<sup>+</sup>

Excellence in Energy Solution

## Quality Manufacturing by Honcell

High-level safety, high cycling, high endurance, high cost-effectiveness





## **SHENZHEN HONCELL ENERGY CO., LTD**

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