

INTRODUCTION OF HIGHSTAR



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Jiangsu Highstar Battery Manufacturing Co.,Ltd

HIGH⚡**TAR**

• Cylindrical Li-ion Battery

Battery Cell Advantages

High Safety

Fully covering all UL/CB safety performance test items

High Power

Supporting continuous discharge current of 60A
Having pulse discharge current of 200A

WTR

-40°C~80°C operating temperature
Good anti-seismic performance, match different demands

Ultra-low IR

High current discharge performance,
Ultra-low internal resistance to 3mΩ

Long Cycle Life

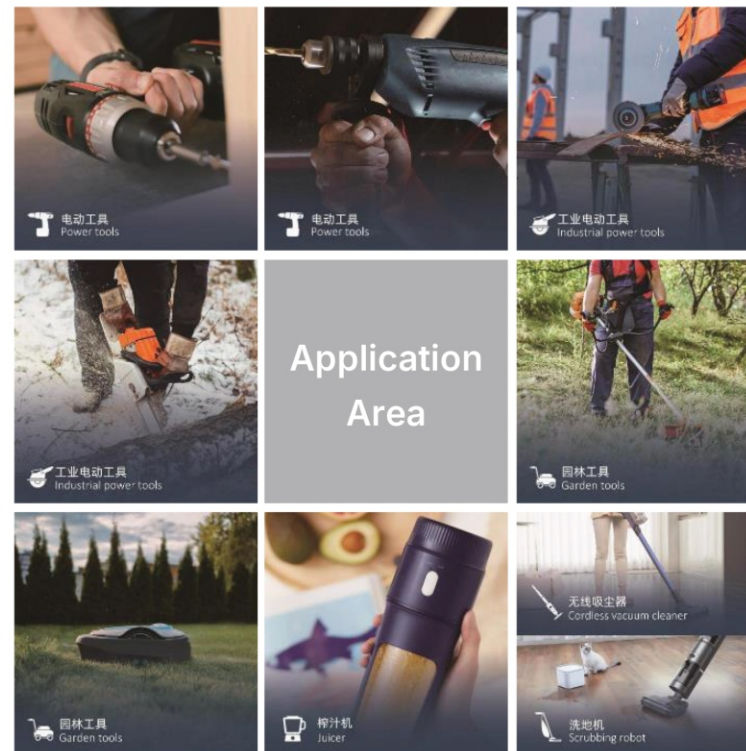
2C/10C for 600 cycles,
Capacity retention rate $\geq 70\%$



Cylindrical High Power Battery

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Model	Energy Density (Wh/kg)	Internal Resistance (mΩ)	Maximum Charge Rate(C)	MAX Continuous Discharge Current at RT(A)	Cycle Life (Cycles)
ISR18650-1500	132	≤20	2.6	30	≥300
ISR18650-2000	172	≤20	2	30	≥300
ISR18650-2200	194	≤20	2	30	≥300
ISR18650-2500	210	≤20	2	30	≥300
INR18650-30PR	235	≤15	1	30	≥300
INR21700-40PR	225	≤10	1.5	50	≥300



- **Prismatic LFP Battery**

Battery Cell Advantages

High Quality

Having undergone years of testing and trials in markets such as India, Southeast Asia, and China

High Performance

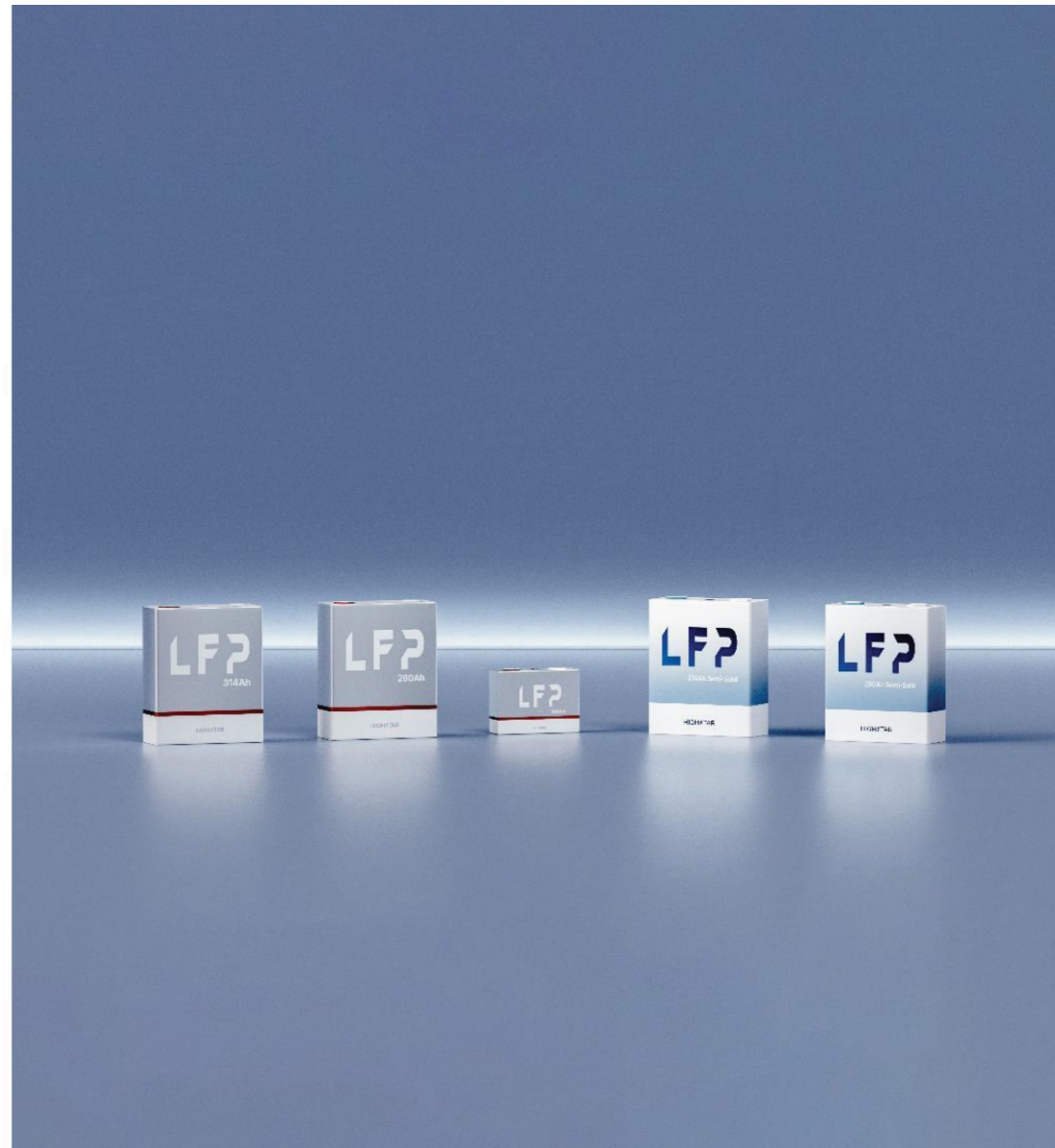
Long life, high energy efficiency, low internal resistance, high power rate, Excellent high and low temperature performance

High Consistency

Smart manufacturing demonstration plant, The highly automated production line ensures the consistency of the battery

High Safety

A perfect design process
More than 3000 process control points and factory safety inspections
Obtained UL/IEC/GB/BIS/ Thiel /CE, etc



Prismatic LFP Battery

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Model	Rated Capacity (Ah)	Energy Density (Wh/Kg)	Cycle Life (Cycles)	Weight(kg)
IFpP71173208-280P3	280	167	8000+	5.36
IFpP71173208-314	314	183	8000+	5.5
IFpP71173208-280S3 (Semi-Solid)	280	167	8000+	5.36
IFpP71173208-314S3 (Semi-Solid)	314	183	8000+	5.5

Application
Area



Prismatic LFP Battery

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Model	Rated Capacity (Ah)	Energy Density (Wh/Kg)	Cycle Life (Cycles)	Weight(kg)
IFpP2770180-25	25	125	3500+	0.64
IFpP36115200-50	50	123	3500+	1.3
IFpP40130205-100	100	146	1500+ 3500+	2.2
IFpP40130220-100	100	146	3500+	2.2
IFpP50160118-100E3	100	162	2000+	1.98
IFpP50160118-100M3	100	162	3500+	1.98
IFpP50160118-100P3	100	162	6000+	1.98
IFpP50160118-100H3	100	162	6000+ (1C/1C)	1.98

Application
Area

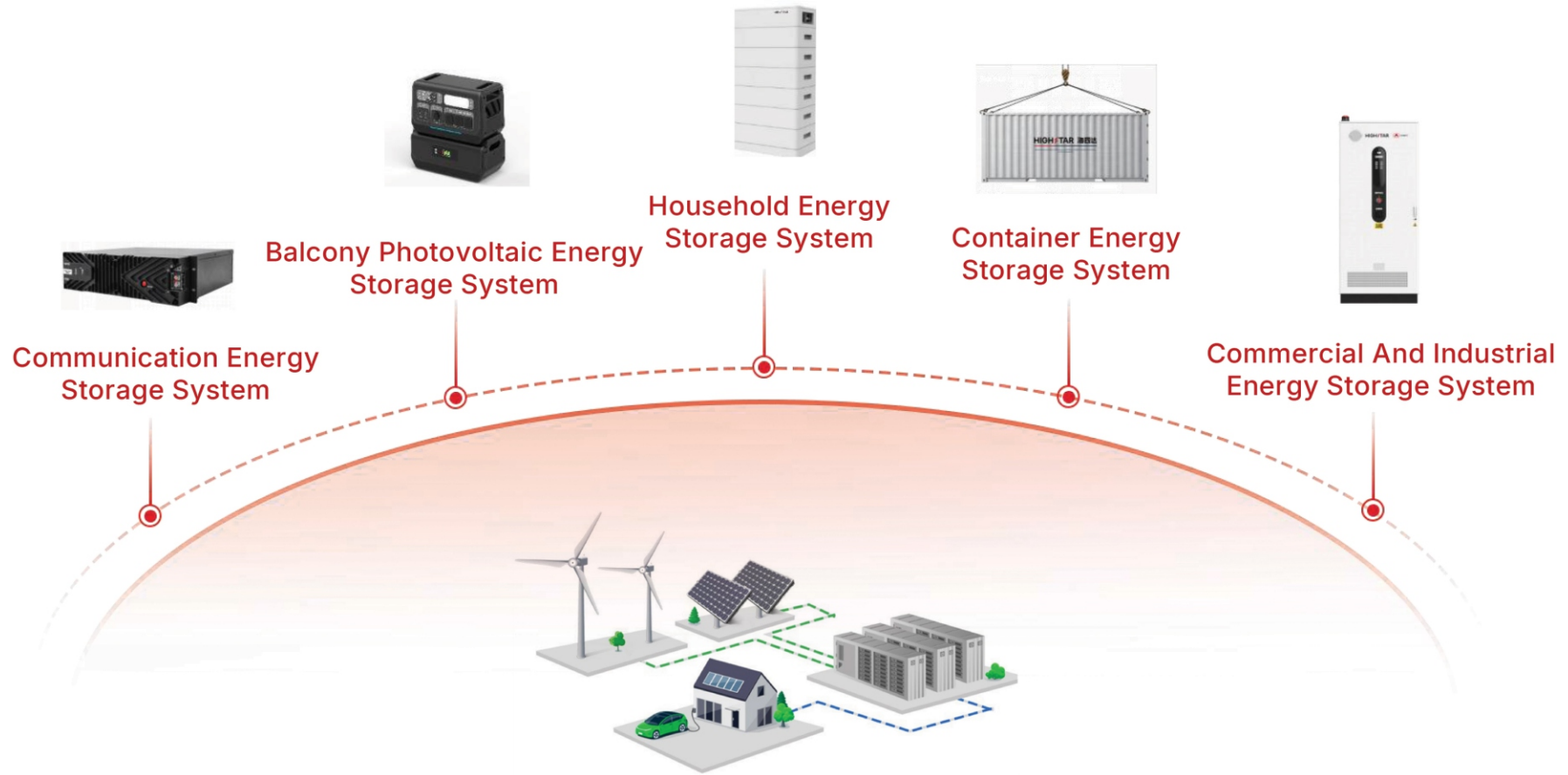


- **Energy Stroage System**



Energy Storage Applications Across All Scenarios

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Communication Energy Storage System

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Intelligent Lithium Battery



Conventional Lithium Battery

Item	HSDLFP-HW48100A	HSDLFP-HW48150A	HSDLFP-HW48200A	HSD48100ZN-A	HSD48150ZN-A	HSD48200ZN-A
Rated Voltage(V)	48	48	48	48	48	48
Rated Capacity(Ah)	100	150	200	100	150	200
Rated Energy(Wh)	4800	7200	9600	4800	7200	9600
Maximum permissible charge/discharge current(A)	100/100	100/100	100/100	100/100	100/100	100/100
Cycle Life	3500/6000	≥3500	≥3500	3500/6000	≥3500	≥3500
Dimension(W*D*H)(mm)	442*440*132	442*470*178	442*470*222	442*400*132	442*560*132	442*560*220
Weight(kg)	41	55	75	45	60	75



Balcony Photovoltaic Energy Storage System

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Application Scenarios: Rooftops, vehicles, home gardens, global power supply, outdoor power stations.

Item	System Parameter					
Product Images						
Specification	HSD-PPS300-3	HSD-PPS600-5	HSD-PPS1200-3	HSD-PPS2400-3PRO	HSD-PPS2400-3	HSD-B200PRO
Cell Capacity	266Wh/72.800mAh	512Wh/160000mAh	1008Wh/315000Ah	2048Wh/640000mAh	2048Wh/640000mAh	2048Wh/640000mAh
Weight(kg)/ Dimension (mm)	3.4/230×140×169	6.6/297×195×195	12/380×220×260	23.0/465×260×295	23.5/465×260×295	17.9/480×255×240



Home Energy Storage System

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HSD48100-A



HSD48200-A



HSD48280-A

Item	HSD48100-A	HSD48200-A	HSD48280-A
Rated Voltage(V)	51.2		
Max Continuous Charge/Discharge Current(A)	150/150		
Cycle Life(80%DOD@25°C)	>6000		
Dimension(W*H*D)mm	442×470×132	442×470×222	442×760×222
Cell Capacity(Ah)	100	200	280
Rated Energy(kWh)	5.12	10.24	14.33
Charging Temperature Range(°C)	0~45		
Discharging Temperature Range(°C)	-20~60		
Protection Level	IP20		
Weight(kg)	78		



Commercial And Industrial Energy Storage System

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■ HSD-ESS-215/241/232/261kWh



Safety:

Advanced BMS/EMS for real-time system monitoring.
Internal/external fire detection, intelligent fire protection.
Intelligent temp. control ($\leq 3^{\circ}\text{C}$ diff.).



Flexibility:

All-in-one, modular design, compact footprint.
Prefabricated, easy transport & installation.



Intelligent:

Cloud management, remote/local monitoring.
Peak shaving, demand control, anti-reverse,
independent operation.

■ HSD-ESS-215kWh All-in-one ESS



High Performance:

Advanced battery tech and optimized circuits ensure
>90% energy efficiency.
High-efficiency, low-cost operation.



Flexibility:

Supports load, battery, grid, PV connections.
EMS ensures stable power supply, maximizes new
energy use.



Intelligent:

Automatically switches modes, adjusts
charging/discharging.
Remote maintenance, diagnostics.

Item	System Parameter				
Specification	HSD-ESS-215kWh	HSD-ESS-241kWh	HSD-ESS-232kWh	HSD-ESS-261kWh	HSD-ESS-215kWh
Rated Energy	215kWh	241kWh	232kWh	261kWh	215kWh
Rated Voltage	768V	768V	832V	832V	768V
Cell Capacity	280Ah	314Ah	280Ah	314Ah	280Ah
Charge/Discharge Multiple	0.5/0.5P				
Weight	2300kg	2325kg	2425kg	2440kg	2600kg
Operating Temperature Range	-20~55°C			-20~55°C	
Protection Level	IP55			IP54	
Cooling Method	Liquid Cooling			Air Cooling	
Communication Method	Ethernet/RS485			CAN/RS485	
Communication Protocol	Modbus TCP/Modbus RTU			Modbus TCP/Modbus RTU	
Fire Protection System	PACK-level, KN65 Fire-fighting Water Interface			Gas Fire Extinguisher	
Dimension(W×D×H)	1300mm×1000mm×2300mm			1200mm×1450mm×2300mm	



Quality Assurance



Battery Safety Test



Safety testing means cover the national standard GB31241, North American UL1642, UL1973 standards, the International Electrotechnical Commission IEC62619 (equivalent to the European CB, CE) standards, Japan PSE, India BIS, South Korea KC and other major economies in the world for lithium battery safety testing standards.



TÜV APPROVED LAB
TÜV approved lab for lithium-ion battery



CNAS L19949
CNAS laboratory accreditation



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**Rayaan Associate Imports & Supplies Premium Lithium-Ion Cells
And Energy Storage Components For The Indian Markets.**

Contact Us

Regd. Office : A/32, Vasundhra Nagar, Ring Rd. No. - 2, Bilaspur (C.G.) Pin - 495001

Corporate Office: T-8, 4th Floor Gwalani Chamber, Vyapar Vihar, Bilaspur (C.G.) Pin - 495001

Branch Office: D-705, East-12, Kachana Rd, Sankar Nagar, Raipur (C.G.) Pin - 492001

✉ Business@rayaanoverseas.com 🌐 www.rayaanoverseas.com ☎ +91 81205 00015