B14400-H

Rechargeable Li-ion Battery Pack
14.4kWh High-voltage Battery

14.4kWh-72kWh

- Battery parallel scalability supported, up to 5 batteries per inverter, expandable to 72kWh
- Optional battery heating design, reliable charging and discharging even in extreme cold down to –20°C
- Highly integrated BMS and battery pack design with ultra-low standby power consumption for minimal energy loss.
- Automotive-grade main controller and AFE chips, delivering high-precision monitoring and long-term operational reliability
- Top-tier Safety,5-layer Battery Protection:
  ①Full coverage temperature detection
  ②BMS intelligent control, over-temp..over-current, over-voltage protection
  ③Built-in DC breaker
  ④Internal aerosol fire extinguisher
  ⑤Decompression valve
- IP65-rated design, unfazed by harsh environments
- Automatic fault isolation function ensures that a single battery fault will not affect overall system operation
- Visible energy tracking & OTA upgrade on Hinen APP



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Technical Specification

Model	B14400-H	B14400-H x2	B14400-H x3	B14400-H x4	B14400-H x5
Rated Energy*(KWh)	14.4	28.8	43.2	57.6	72
Depth of Discharge(%)	95				
Usable Energy*(KWh)	13.68	27.36	41.04	54.72	68.40
Cell Type	LFP($LiFePO_4$)				
Cycle Life*	⩾8000 cycles				
Configuration of System	90S1P	90S2P	90S3P	90S4P	90S5P
Rated Power(kW)	14.4				
Nominal Voltage(V)	288				
Scalability	Maximum 5 Units in Parallel				
Operating Voltage(V)	225-324				
Maximum Charge/ Discharge Current*(A)	50				
Maximum Charge/ Discharge Power*(kW)	16.2				
Operating Temperature range	Charge:0~55℃ / Discharge:-20~60℃				
Storage Temperature and SOC	0～35℃ @SOC60%				
Protection					
Overvoltage/ Undervoltage Protection	Yes				
Overcurrent Protection	Yes				
Overtemperature/ Undertemperature Protection	Yes				
System Operating No-Load Low Power Consumption	Yes				
DC Breaker	Yes				
General Data					
Communication	RS485/CAN/Ethernet				
Relative Humidity	10% to 85% no condensing				
Operating Altitude(m)	⩽2000				
Ingress Protection	IP65				
Cooling Method	Natural convection				
Weight(kg)	117	234	351	468	585
Dimension (without footbolts) (W*H*D)(mm)	730*740*179.5	(730*740*179.5)*2	(730*740*179.5)*3	(730*740*179.5)*4	(730*740*179.5)*5
Dimension (with footbolts) (W*H*D)(mm)	730*750*179.5	(730*750*179.5)*2	(730*750*179.5)*3	(730*750*179.5)*4	(730*750*179.5)*5
Installation Location	Indoor/Outdoor				
Installation Method	Floor stand				
Certification	CB, CE, UKCA, LOA, SONCAP, RCM, EMC, ROHS, S-Mark,KBIA, UL IEC 62619:2022, IEC 60730-1 Appendix H,IEC/EN 62368-1, EN IEC61000-6-1/3, IEC 60529, IEC 60068-2-52 UN 38.3, MSDS				
Country of Manufacture	Made in China				
Warranty*	12 Years				

Rated Energy*: Test conditions: 100% DOD, 0.5C charge and discharge at +25±2℃.
Usable Energy*: Test conditions: 95% DOD, 0.5C charge and discharge at +25±2℃.
Cycle Life*: Test conditions: 95% DOD, 0.2C charge and 0.5C discharge at +25±2℃.
Maximum Charge/Discharge Current/Power*: Maximum continuous charge/discharge current and power derating are related to temperature and SOC.

Warranty*: The standard warranty covers a period of 12 years or a Minimum Energy Throughput of 63.07 MWh, whichever comes first. Please refer to the official Hinen Warranty Policy for detailed conditions.