

# B14400-HW

## 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:
  - ① Full coverage temperature detection
  - ② BMS intelligent control, over-temp., over-current, over-voltage protection
  - ③ Built-in DC breaker
  - ④ Internal aerosol fire extinguisher
  - ⑤ Decompression 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



## Technical Specification

Model	B14400-HW	B14400-HW x2	B14400-HW x3	B14400-HW x4	B14400-HW 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(LiFePO4)				
Cycle Life*	≥8000 cycles				
Configuration of System	90S1P	90S2P	90S3P	90S4P	90S5P
Rated 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:-20~55°C / Discharge:-20~60°C				
Storage Temperature and SOC	0~35°C @SOC60%				
<b>Protection</b>					
Overvoltage/Undervoltage Protection	Yes				
Overcurrent Protection	Yes				
Overtemperature/Undertemperature Protection	Yes				
System Operating No-Load Low Power Consumption	Yes				
DC Breaker	Yes				
<b>General Data</b>					
Communication	RS485/CAN/Ethernet				
Relative Humidity	10% to 85% no condensing				
Operating Altitude(m)	≤2000				
Ingress Protection	IP65				
Cooling Method	Natural convection				
Weight(kg)	≈100	≈200	≈300	≈400	≈500
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, SONCAR, 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				

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