

HB50E series (384 ~ 512V)

is a lithium battery product independently developed by Intelligent Energy Co., Ltd. for all kinds of UPS. Using high rate LFP cell and self-developed BMS system and integrated remote cloud management system and intelligent fire control module, high reliability, good stability, long service life and excellent safety performance.

Value and characteristic

Reliable

- All-round alarm protection (overcharge, overdischarge, short circuit, overload, overcurrent, high temperature, low temperature, balance)
- The new UPS lithium iron phosphate battery pack is safe and reliable, with long cycle life and replacement cycle
- Raw materials and production, use process green environmental protection
- The cycle life of the group is high, and the service life is longer under floating and charging working conditions

Efficient

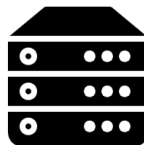
- High energy density and stable discharge platform
- Support high rate charge and discharge, high working efficiency
- Efficient use of space, small size, light weight

Simpleness

- The module is hot-swappable and can be maintained by common engineers in 5 minutes
- Strong ability to adapt to the environment, wide operating temperature range
- Real-time monitoring of power supply and distribution status, eliminating manual inspection



**Large data center
IDC room**



**Disaster recovery
backup center**



**Corporate headquarters
data center**

■ Technical parameters

Model	HB50E19	HB50E20	HB50E24	HB50E25
Cell				
Type	lithium iron phosphate			
Nominal voltage	3.2V			
Rated capacity(Ah)	50			
Maximum continuous charge ratio	0.5C			
Maximum sustained discharge rate	1C			
Operating voltage range	2.5~3.65			
Allowable discharge temperature range	-20~60°C			
Allowable charging temperature range	0~60°C			
Cycle life	4000 times @80%DOD			
Specification	15sets	16sets	15sets	16sets
Rated voltage/capacity	48V50AH	51.2V50AH	48V50AH	51.2V50AH
Quantity (PCS)	8		10	
Mode of connection	Positive/middle/negative terminal rear wiring mode, with flame retardant insulation			
Fire protection arrangement	Configuration of aerosol			
Pack module				
BMS	Built-in BMU collection module			
Cooling	Natural cooling, no fan			
Size (Width * depth * height)	482*460*175(4U)			
Weight (kg)	25	30	25	30
Colour	Black (default, optional)			
Switch configuration	With isolation switch 1, 24VDC switching power supply 1			
Quantity	1			
Pressure tank				
Maximum accepting current	100A(2C)			
Mode of connection	Positive/middle/negative terminal rear wiring mode, with flame retardant insulation			
Size (Width * depth * height)	482*460*220 (4U)			
Rated capacity	19.2KWh	20.48KWh	24KWh	25.6KWh
Nominal voltage	384V	409.6V	480V	512V
Pack Quantity (PCS)	8		10	
Number of high pressure boxes (PCS)	1			
Quantity (section)	120	128	150	160
Screen	10-inch touch screen			
Remote monitoring function	optional			
System				
Charge voltage (adjustable by default)	432VDC	460.8VDC	540VDC	560VDC
Charge voltage protection value (adjustable by default)	360VDC	384VDC	450VDC	480VDC
Communication interface	CAN/RS485(The default is CAN communication)			
Inbound and outbound cable mode	Down down out, up up out, other			
Opening mode	Front and rear doors, grid doors			
Size (Width * depth * height)	600*600*1800		600*600*2000	
Quantity (PCS)	1			
Weight (kg)	about 270kg	about 310kg	about 320kg	about 400kg
Colour	Black (default, optional)			
Operating temperature	0~55°C			
Storage temperature	-20~65°C			
Relative humidity	0%~95%(non-condensing)			
Working altitude	The altitude should not exceed 1000m. The altitude above 1000m is derated according to IEC62040-3 standard. The maximum altitude is 4000m			
Noise	66~75dB			
Standards and certification	UL/FCC/CE/PSE/CP65 / ROHS/UN38.3 / instructions/other battery			