

## HB280F 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

#### Simplicity

- 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	HB280F107	HB280F114	HB280F134	HB280F143
<b>Cell</b>				
Type	lithium iron phosphate			
Nominal voltage	3.2V			
Rated capacity(Ah)	280			
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			
<b>Pack module</b>				
BMS	Built-in BMU collection module			
Cooling	Natural cooling, no fan			
Size (Width * depth * height)	482*490*230(6U)			
Weight (kg)	47	53	47	53
Colour	Black (default, optional)			
Switch configuration	With isolation switch 1, 24VDC switching power supply 1			
Quantity	1			
<b>Pressure tank</b>				
Maximum accepting current	250A(2C)			
Mode of connection	Positive/middle/negative terminal rear wiring mode, with flame retardant insulation			
Size (Width * depth * height)	482*460*220 (5U)			
Rated capacity	107.5KWh	114.6KWh	134.4KWh	143.3KWh
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			
<b>System</b>				
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)	4			
Weight (kg)	about 330kg*4	about 350kg*4	about 380kg*4	about 400kg*4
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			