

# Tower-HV-Series

## Energy storage rack system



### ● Convenient

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance.

### ● Safe and reliable

Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

### ● Intelligent BMS

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell. in series from 5 units to 12 units flexibly Support USB upgrade, wifi upgrade(optional), remote up grade (Compatible with Deye inverter).

### ● Eco-friendly

The whole module is non-toxic, non-polluting and environmentally friendly.

### ● Wide temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.



Product Model	Tower-HV-256V100Ah(5S)	Tower-HV-307V100Ah(6S)	Tower-HV-358V100Ah(7S)	Tower-HV-409V100Ah(8S)	Tower-HV-460V100Ah(9S)	Tower-HV-512V100Ah(10S)	Tower-HV-563V100Ah(11S)	Tower-HV-614V100Ah(12S)
Main Parameter								
Battery Type	LiFePO4 ( EVE Cell )							
Norminal Energy ( kWh )	5.12 * N							
Nominal Voltage ( V )	5.12 V							
Rated Capacity ( Ah )	100*N							
Battery Module QTY ( PCS)	5	6	7	8	9	10	11	12
System Rated Voltage(V)	256	307.2	358.4	409.6	460.8	512	563.2	614.4
System Operating Voltage Range(V)	224 ~ 288	268. ~ 345.6	313.6 ~ 403.2	358.4 ~ 460.8	403.2 ~ 518.4	448 ~ 576	492.8 ~ 633.6	537.6 ~ 691.2
System Nominal Energy ( kWh)	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
System Discharge Energy (kWh)	23.04	27.65	32.26	36.86	41.47	46.08	50.69	55.3
Charge/ Discharge Current (A)	Rated Current	50						
	Max Current	100						
	Overload Current	125A(1 min,25°C)						
Status Indicator Light	Blue: battery system start; Green: battery system running; Red: battery system fault							
Communication Protocol	CAN2.0							
Working Temperature Range	-20 ~ 55 )							
Working Humidity Range	≤95%(No condensation)							
Working Altitude	≤2000m							
System Cooling Method	Natural Cooling							
Protection Grade	IP20							
Warranty	10 Years							
Net Weight(KG)	320	364	408	452	496	540	584	628
Dimension(mm)	560*629*215mm							
Storage temperature(°C)	0 ~35							
Recommended discharge depth	90%							
Cycle life	25 ± 2 °C /0.2C/80%≥6000 Cycles							
Certification	CE/MSDS/UN38.3							

**PS:** 1. System discharge power, test conditions: 90% DOD, 0.2C charging and discharging at 25 °C. (The available energy of the system may vary depending on the system configuration parameters)  
 2. The current magnitude is affected by temperature and SOC.

## Product Model

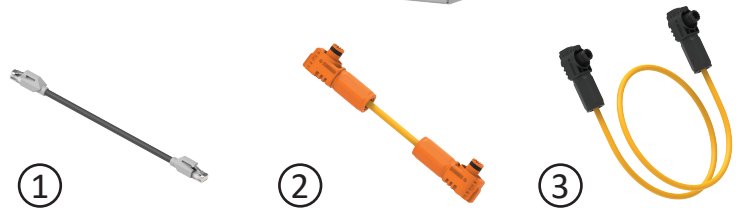
HV-PDU 750VDC100A

Working voltage	240~750Vdc
Rated charging/discharging current	100A
Overload charging/discharging current	125A
Working temperature range	-20~65°C
Protection Grade	IP20
Dimension	440*570*150mm
Net Weight	≈16kg
Parallel operation	Support



### HV-PDU control box cable accessories

- ① Communication network cable
- ② Bat+connection power cable
- ③ Bat Connect Power cable



## Product Model

HV-Tower-16S100

Battery type	LiFePO4(LFP)
Rated voltage	51.2Vdc
Rated capacity	100Ah
Rated power	5.12kWh
Rated charging/discharging current	100A
Overload charging/discharging current	125A
Working temperature range	-20~55°C
Protection Grade	IP20
Dimension	440*570*133mm
Net Weight	≈44kg



### Battery Module accessories

- ① Communication network cable
- ② PACK connection power cable



### Energy storage system cable accessories

- ① P+output power cable
- ② P-output power line



**PS:** This energy storage product is designed for indoor energy storage, so it supports multi cluster parallel operation. However, the parallel operation must use an industrial air conditioner that matches the PCS power and battery power for heat dissipation. Air conditioners without matching power are prohibited from parallel operation (parallel operation requires the use of a matching BMS control software and an industrial air conditioner that matches the required heat dissipation capacity of the product output power. Please contact our technical personnel for specific information. After communication and confirmation, you can upgrade and guide the operation of parallel operation. It is strictly prohibited to merge without authorization, as this operation will cause serious safety accidents). The default shipping software is the non parallel version < 2 clusters of batteries can be charged and discharged with a maximum current of 1C when connected in parallel, 3 clusters of batteries can be charged and discharged with a maximum current of 0.8C when connected in parallel, and 4 clusters of batteries can be charged and discharged with a maximum current of 0.5C when connected in parallel; If the number of battery clusters connected in parallel is greater than 4, it is necessary to contact our technical personnel for communication and confirmation before upgrading and guiding the operation of parallel connection >.