

# Commercial High Voltage

## LiFePo4 Rack Mounted Battery Modules with BMS

• 76.8kWh • 153kWh • 230kWh • 307kWh • 384kWh



Modular designing



10,000 cycles at 90% DOD



200V~1000V  
flexible voltage designing



Compatible with  
Germany known EMS brand Smart1



Auto-address setting,  
plug in and play









Open interface for external  
control and management





## Powerful, and more powerful

-  Three Phase Connection with Asymmetric Output
-  Battery High Voltage Max. 750V
-  Zero Grid Injection Function
-  LiFePO<sub>4</sub>, Superior Safety
-  Always on UPS, < 10ms
-  Modular Design

### Master BMS



Operation Voltage [Vdc]	200~1000
Max. Charge/Discharge Current [A]	100
Recommend Charge/Discharge Current [A]	100
Functions	Pre-charge, Over-Less Voltage/ /Over-Less Temperature Protection, Cells Balancing/SOC-SOH calculationetc.
Communication Protocol/Connector Type	CAN/RS485 ModBus, TCP/IP/ RJ45
Power Connection Type	Amphenol MC4
User Interface	LCD Display(Optional, need to be confirmed upon order)
Dimension [W*H*D mm]	465*180*356
Weight	10kg
Operating Temperature [ C ]	-20~55
Ingress Protection	IP21
Installation Method	Rack Mounted
Warranty	10 years

### Battery Module



Nominal Voltage/Capacity per Module	38.4V/3.84KWH
Expand Capability	Up to 21 Modules series at 806V/80.6KWH
DOD Recommended	90%
Max. Charge/Discharge Current [A]	100A Continual
Recommend Charge/Discharge Current [A]	100A Continual
Communication Protocol/Connector Type	CAN/ RJ45
Power Connection Type	Amphenol Original with lock
Dimension [W*H*D mm]	465*194*403.5 per module
Weight	34kg
Charge Temperature Range [ C ]	0~45
Discharge Temperature Range [ C ]	-20~55
Ingress Protection	IP21
Installation Method	Rack Mounted
Cables Connection Method	Connection at front
Warranty	10 years or 10,000 cycles @90% DOD



### 806V-80.6kWh Rack Datasheet

Nominal Capacity	80.6kWh
Nominal Voltage	806Vdc
Operation Voltage Range	630V~919V
Efficiency	96%
Suggested Depth of Discharge	90%
Dimension [W*H*D]	1250*2352*490mm
Weight	1000kG
Design Life	10 years+
Operation Temperature	0~50
Humidity	5%~95%
Altitude	<2000
Battery Modules	21*3.84kWh modules series connection
Address Setting	Slave Address Auto-setting
External Com. Ports	CAN2.0/RS485 ModBus
User Interface	PC Based Software
IP Protection	IP 21
Parallel Capability	Maximum 5 racks Parallel(Master BMS required)
Standards	UN38.3, IEC62619, CE

### Maximum 5 units 80.6kWh can be paralleled to realize bigger capacity

Full range Li-HV all-in-one storage system can support parallel connection at both on-grid and off-grid port to offer superior system designing and commissioning flexibility.

