

Commercial & Industrial Battery Energy Storage Solution

OP Economical and efficient

All-in-One Solution: Battery packs, charge controller, BMS, EMS and PCS with highly efficient three-level topology integrated into one unit, to maximize the efficiency of the system

A single-group and series design with no parallel capacity loss

OP Safe and reliable

A Standard cabinet with fire system isolation, cutting-edge liquid-cooling technology and combustible gas detection, as well as FM200 fire extinguishing system to ensure safety and controllability

OP Intelligent and user-friendly

Suitable for a variety of applications

Compatible with 400V grid systems

Supports Peak-shaving, Demand control, Backup power, Frequency regulation, monitoring, and fault recording

Operational data can be accessed via WIFI, 5G, LAN, and other interfaces, enabling unmanned operation

OP Easy to install

Plug-and-play and turnkey solution

Can be flexibly scaled to accommodate any energy needs



Technical specifications (1000VDC-400VAC System)

DC side		
Battery Type	Lithium iron phosphate	
Cell Configurations	1P240S	
Rated Capacity (Ah)	280	
Rated Energy (KWh)	215	
Rated Voltage (V)	768	
Rated Power (KW)	100	
Rated Charge/Discharge Rate	0.5C	
Voltage Range (V)	672-864	
Standard Charge/Discharge Current (A)	140/140	
Cooling	Liquid cooling	
Coolant	Ethylene glycol: aqueous solution (50%v :50%v)	
Life Cycles	8000	
Fire Suppression	NOVEC1230/FM200	
Detector	Smoke,heat & flammable gas detectors	
AC side		
Rated AC Power (KVA)	100	
AC overload Capacity (KVA)	110	
Connection Mode	Three-Phase Four-Wire System	
On-grid AC Voltage	380/400 (-20%~15%) Vac	
On- grid Frequency	50/60 (-2.5~2.5) Hz	
Total Harmonic Distortion	<3%	
Power Factor	-0.99 ~ +0.99	
Percentage of Voltage Regulation	≤ ±2%	
Percentage of Current Regulation	≤ ±5%	
Max. Conversion Efficiency	98.5%	
Cooling Method	Natural Convection	
Battery System		
Charging Operating Temperatures Range (°C)	-30°C ~ 60°C	
Discharging Operating Temperatures Range (°C)	-30°C ~ 60°C	
Storage Temperature Range	Short term(<1month) (°C)	-30°C ~ 60°C
	Long term(<1year)(C)	0°C ~ 35°C
Noise	< 75dB	
Dimensions(W*D*H)(mm)	935*1250*2340mm	
Weight(T)	2.2	
Anti-corrosion	C3/C4/C5	
IP Rating	Battery compartment:IP65 Electrical compartment:IP54	
Relative Humidity	0 ~ 95%, no condensing	
Standard Altitude (m)	≤ 2000 (derating, > 2000)	
Efficiency	≥ 86%	
Communication Interface	CAN, Ethernet	
Communication Protocol	ModbusTCP/RTU	
Operation Mode	Peak load shifting?	Yes
	Demand control?	Yes
	Economic operation mode?	Yes
	Reactive power regulation?	Yes
	Power grid dispatch connection?	Yes
	Remote dispatch connection?	Yes
	Local data storage?	Yes
	Anti-reflux?	Optional
Compliance	BMS	UL60730; GB/T34131-2017
	Battery	GB/T36276-2018; IEC62619; UL1973; UL9540A
	PCS	GB/T34120