

MegaValley3 1MW-2MWh



A+ Grade Lithium
Iron Phosphate Cells



20-year Design Lifespan

Version:v1.0

Liquid-Cooled Battery All-in-One C&I BESS



Features and Advantages

Safety Technology

- A+grade lithium iron phosphate
- Multi-level fuse design with sequential protection
- Built-in package-level and container-level gas aerosol fire extinguishing system

Easy to Install and Use

- Highly integrated for ease of transportation, installation and deployment
- Modular design with flexible system capacity configuration

More Reliable

- The system is rigorously designed and tested to operate stably under various conditions
- Equipped with protections against overcharge over-discharge, and over-temperature to prevent accidents

Energy Management System

- Emergency power supply
- Peak shaving
- Demand mitigation
- Self-consumption
- Micro-grids
- Price arbitrage

Technical Parameters

Model	MegaValley3 1MW-2MWh
Battery Data	
Nominal Energy	2089kWh
Nominal Voltage	1331.2V
Battery Model	SC52T08-314
Battery Chemistry	Lithium Iron Phosphate(LiFePO4)
Cycle Life	≥8000 cycles(@25°C,0.5P/0.5P)
Cell Specification	3.2V 314Ah
Battery Pack Energy	52.2kWh
String Configuration	1P416S
Number of Racks	5
Operating Voltage	1164.8V - 1497.6V
Standard Charging Power	0.5P
Standard Discharging Power	0.5P
Safety	
Fire Suppression System	Gas aerosol, Water sprinkler system
PCS Data	
Rated Power	1075kW
Please refer to the PCS section for more details.	
General	
Dimensions(W x D x H)	6058 x 2438 x 2896 mm
Weight	≤24000kg
IP Rating	IP54
Cooling Method	Liquid cooling(Battery)
Operating Temperature	-25°C - +55°C
Storage Temperature	-30°C - +60°C
Relative Humidity	15%~90%(Non-condensing)
Operating Altitude	≤3000m
Communication Interfaces	LAN/CAN/RS485
Compliance	IEC/EN 62619, IEC/EN 61000, UN3536, UN38.3

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Power Conversion System



Features

Flexible Configuration

- Modular design with up to 8 modules
- Direct interconnection with 690Vac
- Power range: 215kW-1.72MW



High Efficiency & Stability

- Maximum efficiency can reach 98.5%, @ DC 1070V
- Multi-string technology for better battery safety and performance



Extensive Use

- Automatic operation strategy of peak shaving and load shifting
- Outdoor NEMA3R Cabinet



Safety & Compatibility

- Fast response time less than 20ms
- Grid-support function built-in
- Global grid certified & listed



PCS Technical Parameters

Model	1725KTL Series
AC Parameters	
Nominal AC Power	1075kVA
AC Connection	Three-phase three-wire
Overload Capability	1182kVA
AC Voltage	690(-15%~10%)V
AC Frequency	50/60 (-5~5) Hz
THDi	≤3%
AC PF	0.99/-1~1
DC Parameters	
Max DC Power	1182kW
DC Voltage Range	1000~1500V(Can only be charged)
Full Load Voltage Range	1070~1500V(Full charge and discharge)
Number of DC Branch	1
Number of Modules	Charging: 0~55°C, Discharging: -20~55°C
Maximum DC Current Every Branch	1005A
Voltage Regulation Accuracy	≤±1%
Current Regulation Accuracy	≤±1%
System Parameters	
Peak Efficiency	98.5%
Dimensions (W*H*D)	2200*2160*1300 mm
Weight	1921kg
Noise	<75dB
Enclosure	IP54/NEMA3R
OperatingTemp	-20°C to 60°C (De-rating over 50°C)
Cooling	Air cooling
Humidity	0~100% (No condensing)
Max Altitude	3000m/10000feet (> 3000m/10000feet derating)
Connection Parameters	
Communication	RS 485, Ethernet, CAN
Protocol	Modbus TCP/RTU, IEC104, IEC61850
Certification	EN50549-2, VDE4110, VDE4120, G99, IEC62477/61000/62109
BMS	Support

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