

YOUR SAFE ENERGY

MegaValley2-ST1 1MWh-500kW
1.5MWh-500kW



A+ Grade Lithium
Iron Phosphate Cells



20-year Design Lifespan

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

Seamless On-grid/Off-grid Switching
With Isolation Transformer



Features and Advantages

Safety Technology

- A+grade lithium iron phosphate
- Multi-level fuse design with sequential protection
- Built-in package-level and container-level 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

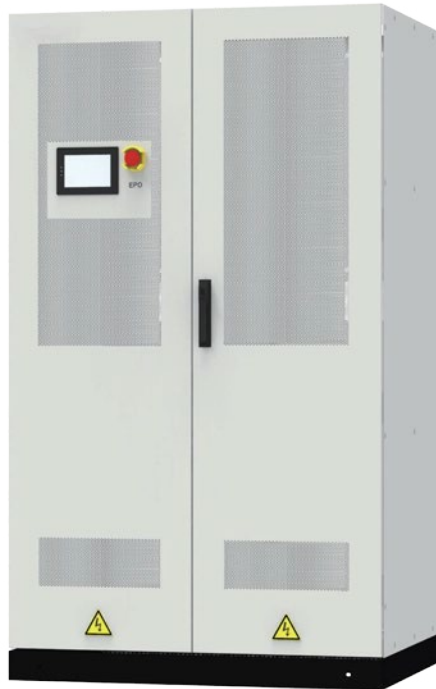
System Technical Parameters

Model	MegaValley2-ST1 1MWh-500kW		MegaValley2-ST1 1.5MWh-500kW	
Battery Data				
Nominal Energy	1044kWh			1568kWh
Nominal Voltage			832V	
Battery Model			SC52T05-314	
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			1P260S	
Number of Racks	4			6
Operating Voltage			728 - 949V	
Rated Charging Power			0.5P	
Rated Discharging Power			0.5P	
Safety				
Fire Extinguishing System			Aerosol , Water sprinkler system	
PCS Data				
Rated Power			500kW	
Please refer to the PCS section for more details				
STS Data				
Rated Power/Maximum Power			600kW/660kW	
AC Voltage			400Vac, 3W+PE	
Switching Time			<10ms	
Transformer Data				
Rated Power			500kVA	
Input Voltage/Output Voltage			400V/400V	
General				
Dimensions(W x D x H)			6058 x 2438 x 2896 mm	
Weight	Approximately 18000kg			Approximately 22000kg
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			LAN/CAN/RS485	
Compliance			IEC/EN 62619, IEC/EN 61000, UN3536, UN38.3, MSDS	

* The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified, the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.

* The specifications are subject to change without prior notice.

Power Conversion System



- **PCS Features**

- 1.Available in both indoor and outdoor cabinet types, suitable for various installation scenarios.
- 2.Adopts a modular rack-mounted design for flexible configuration easy expansion, and convenient maintenance.
- 3.Utilizes a three-level power module design to enhance conversion efficiency and improve energy utilization.
- 4.Equipped with a local control screen, supporting inverter operation monitoring, energy management strategy formulation, and remote device upgrades.

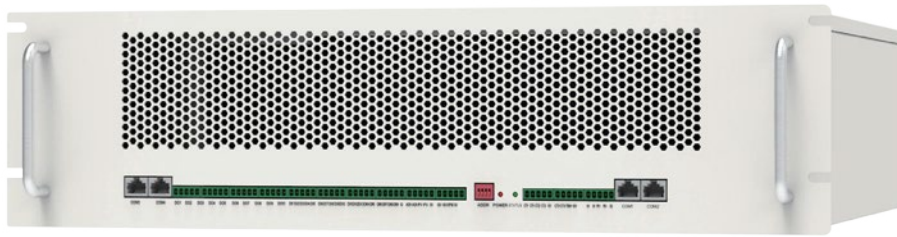
PCS Technical Parameters

Model	Monet-500TS
DC Side Parameters	
Operating Voltage Range	580~950V
Maximum DC Current	200A*4
Adaptive Battery	Lithium/Lead acid/Photovoltaic module
Charging Mode	According to BMS command/Three-stage/MPPT
Operating Mode	Constant current, Constant power, MPPT, AC Voltage source, DC Voltage source
AC Side Parameters (On-Grid)	
Rated/Maximum AC Power	500/550kW
Rated AC Current	180A*4
Rated AC Voltage	400V, 3W+N+PE
Rated AC Frequency	50/60Hz ±5Hz
THDi	<3% (Rated power)
Power Factor	-1 Leading +1 Lagging
AC Side Parameters (Off-grid)	
Rated AC Voltage	400V
Rated AC Frequency	50/60Hz
THDv	<3% (Linear load)
Overload Capacity	110%, Normal operation; 120%, 1 minute
General Parameters	
Degree Of Protection	IP21
Protective Class	Class I
Isolation Method	Transformer isolation
Standby Power Consumption	<0.1% Rated power (Excluding transformer)
Display	Touch LCD touchscreen
Relative Humidity	0~95% (No condensation)
Noise	Less than 78dB
Ambient Temperature	-25°C~60°C (Derating above 45°C)
Cooling Mode	Intelligent air cooling
Altitude	3000m (Derating above 3000m)
Communication Interface	RS485/CAN/Ethernet
Dimensions (W*D*H)	1200*1000*2100mm
Weight (Approx.)	2250kg
Compliance	IEC 61000, IEC 62920, IEC/EN 62109, IEC/EN 62477, IEC/EN 61727, IEC 62116

STS Switching Module

● STS Features

- 1.The maximum efficiency can reach 99%, with better power quality.
2. Intelligent grid-connected and off-grid switching, with a switching time of <10ms.
3. Standard rack-mounted modular design, flexible configuration, convenient maintenance, and easy expansion.



STS Technical Parameters

Model	Monet-600STS
Rated power	600kW
Maximum power	660kW
Rated AC voltage	400Vac,3W+PE
Rated frequency	50/60Hz(±5Hz)
Rated AC current	866A
Switching time	<10ms
Size (W x D x H)	566 x 600 x 150mm
Weight (approx.)	37Kg
Protection level	IP20
Operating temperature	-25°C - +60°C (>45°C derating)
Relative humidity	0~95%(No condensation)
Cooling mode	Intelligent air cooling
Noise	<70dB
Altitude	3000m(> 3000m derating)
Communication port	CAN
Compliance	EN 62310-1:2005