EOS+
Modular Solar Energy Storage System

SOLAESS-125-261/522/783/1044 （125kW 261/522/783/1044kWh)

SOLAESS-250-522/783/1044 （250kW 522/783/1044kWh)

Highly Modular, Scalable Design

DC/AC, DC/DC, STS modules freely combinable for various applications.

Standard rack design enables fast deployment and easy maintenance.

Scalable from 261kWh to 1044kWh with parallel expansion.

Intelligent Efficiency, Reliable Performance

Cell-level monitoring and balancing with advanced BMS for longer lifespan.

High-efficiency 3-level PCS topology, compatible with 3P3W/3P4W grids.

Multiple modes: PQ/VF/CV/MPPT for on/off-grid applications.

Multi-Layer Safety & Protection

Physical isolation between electrical and battery compartments improves safety.

IP54 rating, wide operating temperature from -30℃ to 55℃.

Active fire protection, thermal management, and remote emergency stop.

Multi-Scenario Application Value

C&I peak shaving & demand management for reduced electricity costs.

Solar integration supporting PV and EV charging synergy.

Reliable backup power for off-grid and remote installations.

Grid services: frequency regulation, black start, and microgrid operation.

| Peak Shaving | Arbitrage | Solar Hybrid | Backup Power |

Model	SOLAESS-125-261 SOLAESS-125-522 SOLAESS-125-783 SOLAESS-125-1044	SOLAESS-250-522 SOLAESS-250-783 SOLAESS-250-1044
AC (Grid-tied)		
Max. Power	137kW	275kW
Rated Power	125kW	250kW
Rated Voltage	400Vac	
Rated Current	180A	
Voltage Range	-10%~+10%	
Rated Frequency	50/60Hz	
THDI	< 3%（at rated power）	
Power Factor	-1 leading ~ +1 lagging	
AC System	400Vac，3W+PE/3W+N+PE	
AC Input	3W+PE/3W+N+PE	
AC (Off-grid)		
Max. Power	137kW	275kW
Rated Power	125kW	250kW
Rated Voltage	400Vac	
Rated Current	180A	
THDU	< 3%(at rated power)	
Rated Frequency	50/60Hz	
Overload Capability	110% long term, 120% for 1min	
DC (Battery & PV)		
Max. PV Open Circuit Voltage	630VDC	
Max. PV Power	250kW	
PV MPPT Voltage Range	200V~900V	
Battery Voltage Range	728V~936V	
Optional Battery Configuration	1 rack / 2 racks / 3 racks / 4 racks	
Max. Charging Power	250kW	
Max. Discharging Power	250kW	
Max. Charging Current	160A	
Max. Discharging Current	160A	
Basic System Information		
Noise	<75dB（A）@1m	
Operating Temperature	-25°C~+55°C (Derating >45°C)	
Cooling Method	Liquid Cooling	
Relative Humidity	0~95% non-condensing	
Max. Altitude	3000m (Derating >3000m)	
Built-in Transformer	Not Included	
Grid-Off Grid Switch Time	Auto <10ms	
Standby Consumption	<30W	
Display	Touch Screen	
Communication Interface	Rs485/Ethernet	
Dimensions (W*D*H)	Battery Rack: 1100(W)*1345(D)*2254(H)mm Electrical Cabinet: 900(W)*1345(D)*2254(H)mm	
Weight	Battery Rack: 2500kg Electrical Cabinet (excluding DC/DC and STS): 650kg	
Certifications	PCS cert：EN50549-1/-2/-10、VDE4110、G99/G100、C10/C11、IEC61727/62116、PSE-2018、Green Power Denmark 2022、2016/631 EU-(NC RFG)、PPDS、NRS097、PEA-2016.MEA:2015(Bangkok)、TOR25、ANRE 228:2018、IEC 62477、ROHS、Reach ESS cert:UN38.3、 IEC 60730-1、IEC62619、IEC62477-1、 IEC 61000-6-2/-4、IEC62109-1/-2、Regulation (EU) 2023/1542 Cell cert:UN38.3、IEC62619、IEC62620、UL1973、UL9540A、BIS、ROHS、Reach	

Battery Cabinet:

Serves as the energy storage unit of the system, integrating battery modules, HVAC system, and fire protection system. Utilizes advanced battery technology for high energy density storage. The control system monitors battery status and charge/discharge processes in real-time, ensuring safe and stable operation.

Model	HBAT-261
Rated Battery Capacity	261kWh
Rated Battery Voltage	832V
Battery Voltage Range	650V~949V
Battery Type	LFP
Cell Capacity	314Ah
Configuration	1P*52S*5S
Rated Charge/Discharge Rate (C-rate)	0.5P
Protection Rating	IP54
Charge Temperature Range	0~55℃
Discharge Temperature Range	-30℃~55℃
Cooling Method	Liquid Cooling
Altitude Range	3000m (Derating >2000m)
Dimensions (W*D*H)	1100(W)*1345(D)*2254(H)mm
Weight	2500kg

Optional Accessories:

☑ DC/DC Module —— for Integrated Solar-Storage Scenarios:

Combines PV charging and battery charge/discharge functions; three-level topology with high conversion efficiency; dual interleaved parallel control reduces ripple current.

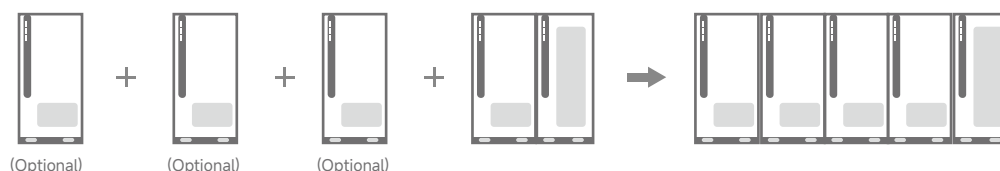| Model	Monet-50DC	
Rated Power	50kW	
Maximum Power	55kW	
	High Voltage Side	Low Voltage Side
Operating Voltage Range	250V~950V	200V~900V
Full Load Voltage Range	500V~950V	345V~900V
Maximum DC Current	110A	160A
Number of MPPT Trackers	1	2
Connection Type	PV / Lithium Battery / Lead Acid / Flow Battery / DC Bus / DC Load, etc.	
Charging Method	According to BMS command / 3-stage / MPPT	
Operating Modes	Constant Current, Constant Power, Constant Voltage, MPPT	
Dimensions (W*D*H)	483 (440 excl. ears)(W) *600(D)*150(H)mm	
Maximum Efficiency	98.80%	
Weight (approx.)	30kg	
Isolation Type	Non-isolated	/
Protection Rating (IP)	IP20	/
Operating Temperature	-25℃~60℃ (Derating >45℃)	
Relative Humidity	0~95% non-condensing	
Cooling Method	Intelligent Air Cooling	/
Noise Level	<70dB	/
Altitude	3000m (Derating >3000m)	/
Communication Ports	RS485 (Optional) / CAN	/

☑ STS Module —— for Seamless Transfer (UPS-like) Scenarios:

Equipped with voltage, current amplitude, frequency, and phase synchronization detection and communication, enables seamless transition between grid-tied and off-grid modes in microgrid systems, ensuring power supply reliability.
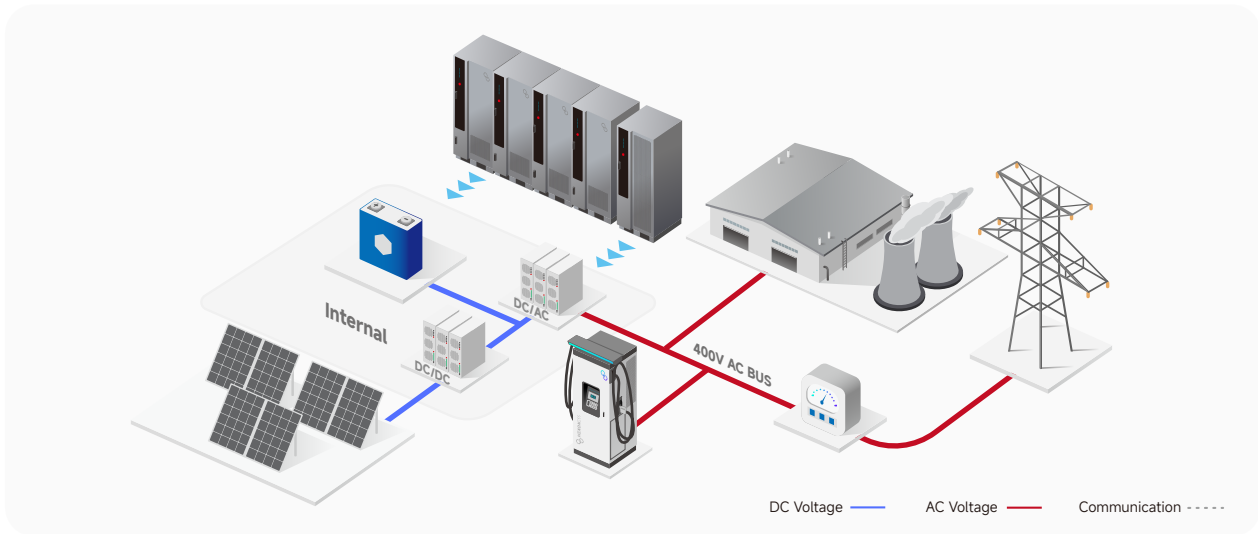

Model	Monet-300STS	Monet-600STS
Rated AC Power	300kW	600kW
Max. AC Power	330kVA	660kVA
Rated AC Voltage	400Vac,3W+PE	
Rated Frequency	50/60Hz	
Rated AC Current	433A	866A
Transfer Time	<10ms	
Sync Control & Protection Interface	CAN / I/O Interface / CT Input	
Dimensions (W*D*H)	566 (520 excl. ears) (W)*600(D)*150(H)mm	
Operating Temperature	-25~45℃	
Weight	32kg	37kg

Parallel Combination Diagram:

(Optional) + (Optional) + (Optional) + →

Scenario

Peak shaving solution for C&l

DC Voltage ———   AC Voltage ———   Communication - - - - -

Peak shaving solution for Microgrid

DC Voltage ———   AC Voltage ———   Communication - - - - -
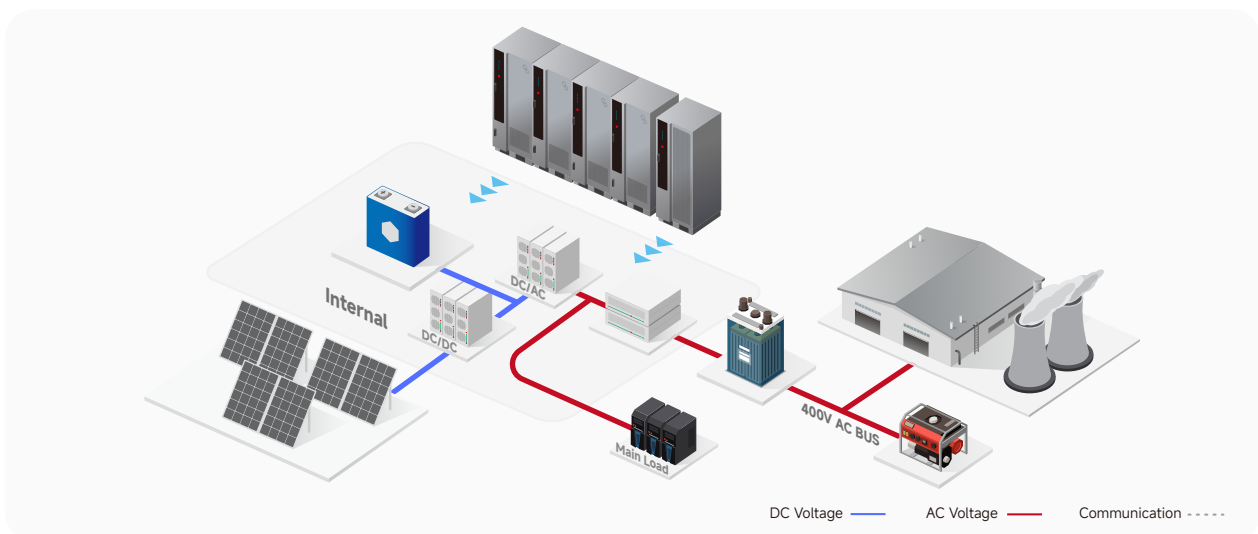
Microgrid Energy Management System

Data Dashboard
View the site overview, including statistics on charging and discharging

Power Plant Management
Site operation status, revenue, etc

Remote Management
Remote support operations and OTA upgrades

Battery Monitoring
Check the battery charge and discharge status and real-time data