

Liquid Cooling C&I Energy Storage Cabinet
MEGAESSOSR261K (With hybrid inverter)

MEGAESSOSR261K (With hybrid inverter) uses advanced Hybrid Electrolyte Solid State LFP, battery capacity of 314Ah, not only has a long life, but also has the dual guarantee of high efficiency and safety. With a storage capacity of up to 261kWh and a wide system voltage range, the system can flexibly adapt to various industrial and commercial needs. It supports 8 sets in parallel.



Features

- Compact**
1.5m² footprint only, easy transportation & fast installation.
- High Integration**
261kWh energy in one cabinet with remarkable endurance.
- Efficient Cooling**
Optimized in-PACK duct design ensures high-efficiency cooling with reduced energy consumption.
- Long Cycle Life**
Over 6000 cycles, providing excellent long-term battery performance.
- Versatile**
Support multiple brands of hybrid inverter, with higher selectivity.
- Ultimate Safety**
In-PACK fire warning and protection with aerosol, prevent heat diffusion and runaway.



Application Scenario: School, Hospital, Hotel

*The inverter needs to be selected by the user according to their own requirements. The product does not come with inverter by default.

PRODUCT PARAMETERS

Battery Parameter	MEGAESSOSR261K(With hybrid inverter)
Cell type & capacity	Hybrid Electrolyte Solid State LFP 3.2 V 314 Ah
Pack Configuration	1P52S / 52.25 kWh
System Configuration	1P260S
Nominal Voltage DC	832 V
Nominal voltage range	728 ~ 936 Vdc
System capacity	261.25 kWh
Temperature Detection	Battery cell + Module + Terminals
PV parameter	
Maximum PV component power	240 kW
Rated input voltage	600 V
Starting voltage	180 V
MPPT voltage range	150V ~ 950 V
Maximum input current	42A*10
MPPT quantity/maximum number of input string channels	10, 20
AC Side On-grid Parameter	
Rated Output Power	125 kW (@50°C)
Maximum Output Power	137.5 kW
Rated grid voltage range	400 V (340 ~ 449 VDC)
Frequency range	50 Hz / 60 Hz ±5 Hz
Rated AC output current	182 A
Power Factor	> 0.99
Harmonics	<3% (Linear Load)
Grid type	3P4W
AC Side Off-grid Parameter	
Rated Output Power	125 kW (@50°C)
Rated grid voltage range	400 V (340~449VDC)
Frequency range	50 Hz / 60 Hz ± 5 Hz
THDu	<3% (Linear Load)
DC Injection	<1% Un (Balanced Linear Load)
Overload	
Overload Capacity	Operate for a long time at 1.1 times (137.5kW, 45°C) Operate for less than 1 minutes at 1.2 times of the rated load
Efficiency	
Rated Round-trip Efficiency	≥88.7%
Maximum Round-trip Efficiency	90.80%
General Parameter	
Dimension (W*D*H)	1350*1000*2385 mm
Max. weight	2.6 t
IP Rating	IP67 (Battery cabinet), IP54 (Electrical cabinet)
Cooling method	Liquid Cooling
Fire fighting system	Rapid type aerosol fire extinguishing device
Anti-corrosion grade (optional)	C4 / C5 (The default is C4)
Operating temperature	Charge 5~45°C; Discharge -15~45°C
Altitude	≤2000 m
Communication	
Communication Interface	RS485, DIO, Ethernet
Communication Protocop	Modbus-RTU, Modbus-TCP, DL/T645
Cloud Platform	Megalion Cloud Platform (Default), Support third-party cloud platforms
Certifications	
System: CE (EN61000; IEC62477); IEC62619; IEC62040-1; UN38.3; Cell: IEC62619, UL1973, UL1642, UL9540A, UN38.3; Converter: G99, VDE4105, EN50549-1, CE (EN61000, IEC62477), OVE-Richtlinie+R+25, NRS 097-2-1, GB/T34120	

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