

All-in-One Liquid Cooling C&I Energy Storage Cabinet

MEGAESSOSR261K

MEGAESSOSR261K 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. The cabinet integrates 5S (EMS+BMS+PCS+TMS+SMS) to achieve the perfect combination of intelligent management and efficient output. 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 8000 cycles, providing excellent long-term battery performance
- High Efficiency**
EMS+BMS+PCS+TMS+SMS 5S integration
- Ultimate Safety**
In-PACK fire warning and protection with aerosol, prevent heat diffusion and runaway



Application Scenario: School, Hospital, Hotel

PRODUCT PARAMETERS

Battery Parameter	MEGAESSOSR261K
Cell type & capacity	Hybrid Electrolyte Solid State LFP 3.2V 314Ah-WL
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
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 ~ 449VDC)
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 ± 5Hz
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 minute 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)	1000*1350*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	-25°C ~ 55°C
Altitude	≤ 2000 m
Communication	
Communication Interface	RS485, DIO, Ethernet
Communication Protocol	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.; **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

This datasheet is intended solely for product information and is not legally binding. The actual specifications and/or product features may differ slightly from those stated. Errors and changes are reserved. Please read the safety and installation instructions carefully and completely before using the product. Upon purchase, the currently valid warranty statements and the general terms and conditions of Megalion Europe GmbH shall apply.