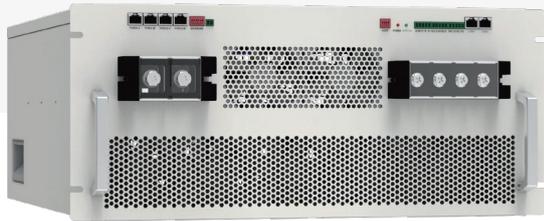


Palmer Mega 261

Palmer Energy Technology Ltd



Safety Technology

A+ grade lithium iron phosphate cells
Multi-level fuse protection
Built-in aerosol fire extinguishing systems at the systems and rack level



Increased Reliability

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



Easy to Install and Use

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

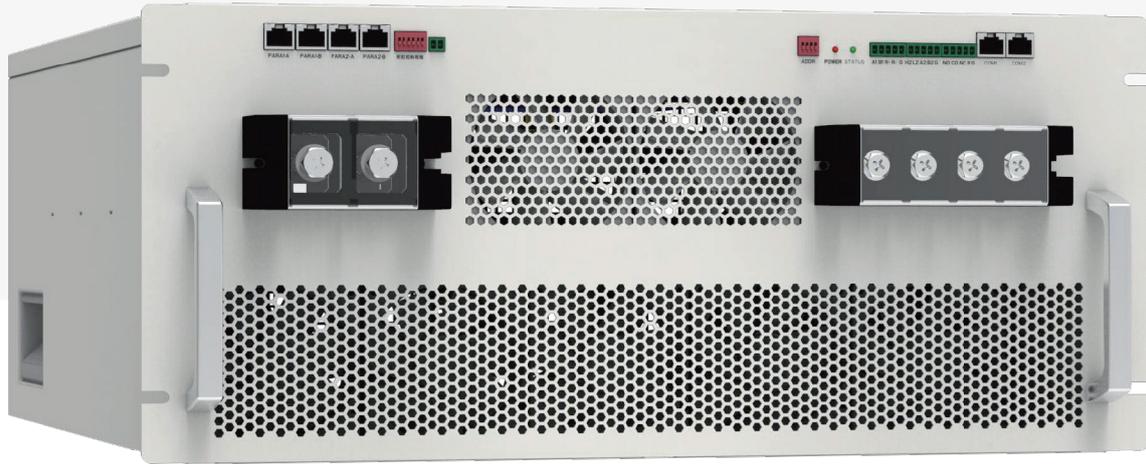


Energy Management System

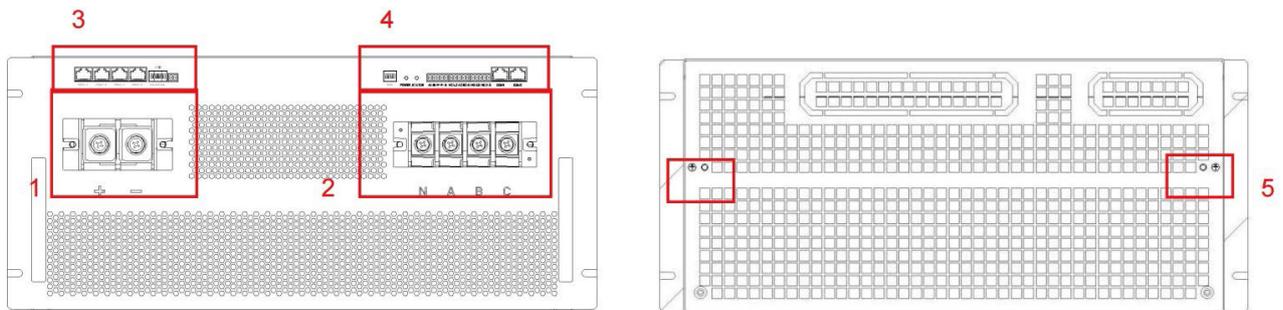
Emergency power supply
Peak shaving
Demand mitigation
Self-consumption
Micro-grids
Price arbitrage

Model	SC261L125-01M	SC261L100-01M
BatteryData		
Nominal Energy	261kWh	
Nominal Voltage	832V	
Battery model	SC52T08-314	
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)	
Cycle Life	≥8,000 cycles (@25°C, 0.5P/0.5P)	
Cell Specification	3.2V/314Ah	
Battery Pack Energy	52.2kWh	
String Configuration	1P260S	
Number of Racks	1	
Operating Voltage	650~949V	
Rated Charging Power	0.5P	
Rated Discharging Power	0.5P	
Safety		
Fire Suppression System	Aerosol fire extinguishing	
PCSDData		
Rated Power	125kW	100kW(Derating of the 125kW PCS)
Please refer to the PCS section for further details.		
General		
Dimension(W x D x H)	1300 x 1550 x2090mm	
Weight	≤2600kg	
Operating Temperature	-20°C - +55°C	
Storage Temperature	-30°C - +60°C	
Relative Humidity	15%~90% (Non-condensing)	
IP Rating	IP54	
Cooling Method	Liquid cooling (Battery)	
Operating Altitude	≤3000m	
Communication	CAN, RS485, Dry contact	
Compliance	IEC/EN 61000, IEC 62619 UN38.3, MSDS	IEC/EN 61000, IEC 62619 CEI 0-16, CEI 0-21, UN38.3, MSDS

Specifications are correct at the time of printing. Any deviations from specification will be clarified and discussed through quotation process.



Power Conversion System



1. DC interface 2. AC interface 3. Parallel interface 4. Signal interface 5. grounding interface

Adopting a three-level topology, the maximum PCS efficiency is 99%.

It supports constant current, constant power, MPPT, AC voltage source control, and has a black start function.

Adopting a standard rack-mounted modular design, it is flexible in configuration, convenient in maintenance, and easy to expand.

Compatible with three-phase four-wire systems, it can meet both off-grid and grid-connected requirements.

Adopting patented harmonic suppression technology, it is suitable for diversified scenarios such as industrial parks and microgrids.

Modular design allows for easy parallel operation, facilitating the formation of 250kW, 500kW, and 1MW multi-cluster management solutions with convenient expansion.

PCS Technical Specifications



Model	LOL125AC-01M
Rated Power	125kW
Max. Power	137kW
DC Operating Voltage Range	580~1000V (3W+PE); 680~1000V (3W+N+PE)
DC Side Full Load Voltage Range	625~950V (3W+PE); 680~950V (3W+N+PE)
Max. direct current	200A
Rated AC voltage	400Vac, 3W+PE/3W+N+PE
Rated frequency	50/60Hz (± 5 Hz)
Rated AC current	180A
Overload capacity	110% (normal operation); 120% (1 minute)
Current distortion	<3% (rated power)
Power Factor adjustment Range	-1 leading to +1 lagging
Max. efficiency	98.2%
Dimensions (W x D x H)	566 (Mounting bracket excluded) x 680 x 245mm
Weight (approx.)	68kg
Isolation Mode	No isolation
Anti-corrosion grade	C3
Application environment protection level	Module built into outdoor cabinet; IP55
Ingress Protection	IP20
Ambient temperature	-30°C to+60°C (derate above 45°C)
Relative humidity	0 to 95% (no condensation)
Cooling mode	Intelligentair-cooled
Noise	<70 dB
Altitude	3000m (derating above 3000m)
Communication interface	RS485 /CAN2.0/ Drycontact