



LIGOO ESS 48100S Battery System



■ Product Preview

LIGOO ESS-48100S series is widely used in residential energy storage, small UPSs, PV off-grid base stations and other fields. With good charging and discharging performance, long service life, proper safety and reliability, and portable modular structure, this series is suitable for cabinet or stacking installation.

■ Key Features

- Deep cycle for long service life
- Modular design for convenient installation
- Excellent safety performance, and bi-directional balance management with automatic charging and discharging
- Multiple communication modes including CAN, RS485 and RS232, etc.
- Good compatibility and wide application, with parallel expansion supported
- Supporting the inverters of more than twenty mainstream manufactures, such as GoodWe, Solis, and SMA

■ Specifications

Model	LIGOO ESS-48100S
Cell type	Lithium iron phosphate
Cell specification	3.2 V 100 Ah
Battery PACK configuration	5.12 kWh (1P16S)
Rated voltage	51.2 V
Operating voltage range	46.4 V – 56 V
Maximum charging current	100 A
Maximum discharging current	100 A
Cycle life	≥ 6,000 times
Communication interface	RS485, CAN and RS232, etc.
Communication protocol	Modbus
Protection grade	IP20
Installation mode	Indoor
Ambient temperature	-20°C – 50°C
Ambient humidity	5% – 95%
Maximum number of parallel connections	16 (81.92 kWh)
Dimension (width × depth × height)	430×530×133.35 mm (3u)
Weight	45 kg
Certification	UL1973, IEC62619, UN38.3, MSDS