

“Power Your Home and Invest Today”



OPAL ENERGY STORAGE MODULAR BATTERY PACK USES SAFER HIGH QUALITY ATL LITHIUM IRON-PHOSPHATE TECHNOLOGY CELLS.

Long Life



Long life, no attenuation of efficiency
Low maintenance & iteration cost

Safe and Reliable



Safety management in life cycle
Multilevel safety management measures

High Energy Density



Product slimming and weight loss
Effective housing space to store more energy + capacity

Applicable in wide Temperature Range



Applicable in abundant scenarios
Applicable at temperature - 20°C ~ 55°C



Multiple Communication Paths

RS232 Interface, fast connection with PC,
Supports both RS485 and CAN communication,
support two channel dry contact communication

- **Uses Safer Lithium Iron Phosphate Technology**
- **Low DC voltage safer to operate especially for residential usage**
- **Compact design and small in size**
- **Ease of upgrading, able to parallel up to 30 packs without the need to have additional BMS**
- **Long cycle life >6000 times (0.5C up to 80% DOD@ 25deg.C)**
- **Modular for the ease of transportation**



TECHNICAL PARAMETERS



Model	Opal-48100LV-ES
Nominal Total Energy	4.8kWh
Battery Rated voltage	48V
Nominal Capacity	100Ah
Battery Operating Range	46 to 52V
Max. Charging/ Discharging	100Ah
Battery Self-discharging rate	<3% @25°C, 50% SOC
Cycle Life	>6000 times (0.5C up to 80% DOD)
Battery certification	IEC 62619, IEC62040, UN38.3
Operating Temperature Range °C	-25 to 60
Cooling	Natural Cooling
Elevation	<3500m
Individual Battery Pack (Kg)	37Kg
Battery Dimensions (mm)	442W x 478H x 128D mm
Protection Degree of battery Pack	IP20
Warranty	5 years
Communication with BMS	RS485/CAN