



## ESP-5100 BATTERY MODULE



Fenice Energy offers 5 kWh lithium battery packs using Lithium Ferrous Phosphate (LFP) technology. These battery packs are designed to be stackable, meaning multiple units can be connected to increase battery capacity as needed. LFP batteries are known for their long cycle life and safety.

Model	ESP-5100
Total Energy *	5.12kWh
Battery Capacity	100Ah
Nominal Charge/Discharge Power	2.56kW
Voltage Range	42Vdc ~ 54Vdc
Recommended C Rate	0.5C
Max C Rate	0.6C
Nominal Voltage	51.2Vdc
Nominal Current	50A
Max Current (Charge / Discharge )	60A
Max Charge Voltage	56Vdc
Recommended DOD	90%
Operation Condition	Indoor
Operation Temperature (Charge)	0°C ~ 45°C
Operation Temperature (Discharge)	(-10°C) ~ 55°C
Dimensions	442 x 500 x 133 (mm) 17.4 x 19.7 x 5.2 (inch)
Weight	42kg (92.4lb)

Relative Humidity (RH)	20% ~ 60% (No condensed water)
Cooling Type	Ambient Cooling
Case Material	Metal
Color	White
Installation	Cabinet or Wall Mounting
Enclosure	IP20
Protective Class	I
Max Number of Parallel	8
Wi-Fi Frequency Range	2400Mhz ~ 2483Mhz
Max Transmission Power	< 20dBm
Warranty	10 Years
Communication	CAN/RS485
Protection Mode	Triple Hardware Protection
Battery Protection	Over-Current/Over-Voltage/Short Circuit
Safety Certificate	CE&TUV (IEC-62619, IEC-62040), UL1973, UL9540
Hazard Class of Dangerous Goods	9
Transportation	UN38.3

- Test Conditions Based on Temperature 25°C at the Beginning of Life.
- Total Energy/Usable Energy Measured Under Specific Conditions from ESP 0.2C CC/CV