

ELIOS | Litio 5.12

51.2V 100AH / 5.12 kwh Rechargeable LV Battery

Data Sheet



The Elios Litio 5.12 is a high-performance energy storage system designed for dependable backup power and efficient energy management. With a rated capacity of 100 Ah and a voltage of 51.2 V, it offers flexible installation options and integrates advanced safety technologies. Built to deliver consistent performance in various conditions, it is backed by international certifications and a long cycle life, ensuring reliability and durability over time. Ideal for residential energy storage, off-grid systems, micro-grid applications, and UPS power supply, the Elios Litio 5.12 ensures reliable power with a 20+ year lifespan.

Features & Benefits

-  Flexible design supports up to 32 units in parallel, reaching a total capacity of 163,84 kWh.
-  Heating function ensures reliable performance even in colder environments.
-  Integrated CR foam fire suppression system enhances safety.
-  Long-lasting design rated for 6,000 charge/discharge cycles.
-  Compatible with CAN, RS485, dry contact, and optional WiFi for smart remote monitoring.
-  Designed for durability, offering a 20+ year lifespan.

Certifications

UL9540A | UL1973 | UN38.3 | RoHS | IEC62619 | CE-IEC 61000 | IEC 62040 | MSDS

ELIOS | Litio 5.12

51.2V 100AH / 5.12 kWh Rechargeable LV Battery

Data Sheet

SPECIFICATIONS

Item	Specification
Rated Capacity	100 Ah
Rated Voltage	51.2 V
Rated Current	0.5 C, 50 A
Working Voltage Range	44.8 V ~ 57.6 V
Rated Energy	5.12 kWh
Max. Parallel Quantity	Max. 32 Sets In Parallel, 163.84 kWh
Rated Charging Current	0.5 C, 50 A
Max. Charging Continuous Current	0.5 C, 50 A
Rated Discharge Current	0.5 C, 50 A
Max. Discharge Continuous Current	0.5 C, 50 A
Battery Max. Charge/Discharge Power	2.5 kW / 5.12 kW
Peak Discharge Current/Power	105 A / 5.37 kW, 1min
Available SOC Range	0% ~ 100%
SOC Transportation Range	50%
Dimensions (W*D*H)	17.32 x 20.87 x 5.2 in (440 x 530 x 132mm)
Weight	~44.5 kg (98.10 lb)
Operating Temperature ¹	With Heating Function : Charging Temperature: -10°C ~ 55°C Discharge Temperature: -20°C ~ 55°C
Storage Temperature ²	-20°C ~ 55°C
Working Humidity	<95% RH (non-condensing)
Altitude ³	≤2000 m / 78.74 inch
Communication	CAN, RS485, Dry Contact, WiFi
Designed Cycle Life (25°C ± 2°C)	6000 Cycles
IP Rating	IP20
Cooling	Natural Cooling
Heating Power	205 W
Fire Protection	YES
Emergency Stop Function	YES (External Wiring Required)
Environment Protection Standard	RoHS

Note:

(1) Recommended operating temperature: 10~30°C. (2) Recommended Storage temperature: 10~30°C.
(3) Recommended working height is less than 2000 m/78.74 inch, and the max. working height is 3000 m/118.1 inch.

Applications

- Residential Energy Storage System
- Commercial
- Off-Grid
- Micro-Grid
- UPS Power Supply
- Peak Charge Reduction

Warranty

- 10 year limited warranty

Dimensions

