



**Built in Fuse Protection**



**Smart Cell Monitoring**



**Userfriendly Touch Screen LCD**

# MAGIC BOX N-5100W

5.12kwh

## LOW-VOLTAGE BATTERY SYSTEM



### High Performance

- 105A max. discharging current for fast energy flow
- Cycle life > 6000 times for long-lasting use



### Assured Reliability

- Premium LiFePO4 cells and high-efficiency processors
- IP40-rated for reliable and safe operation



### Smart Management

- User-friendly LCD touchscreen
- Remote fault diagnostics and updates



### Flexible Adaptability

- Supports floor, wall, or rack mounting
- Expandable to 16 units in parallel
- Supports Internal WiFi Module

**MAGIC BOX N-5100W**

Battery type	LFP
Battery component	1P16S
Nominal voltage	51.2 V
Operating voltage range	42.4 ~ 57.6 V
Rated capacity	100 Ah
Nominal energy	5.12 kWh
Usable energy (90%DOD) <sup>①</sup>	4.6 kWh
Recommnd current	50 A
Max. current	Charge: 75 A, Discharge: 105 A
Peak current	200A 10s, 25°C
Cycl life <sup>②</sup>	> 6000 Cycles (25°C ± 2°C, 0.2C / 0.2C, 90%DOD, 70%EOL)
Communication interfaces	CAN / RS485 / WiFi
HMI	3.5 inch LCD touchscreen + Status Light + SOC power indicators
Operation temperature	Charge: 0 ~ 55°C, Diacharge: -20 ~ 55°C
Storage temperature	-20 ~ 30°C (12 months), 30 ~ 60°C (6 months)
Single string quantity	16 pcs
Dimension (W x H x D)	326 x 626 x 164 mm
Weight	41.5±1 kg
Installation type	Wall / Floor / Rack mounting
Enclosure protection	IP40
Cooling concept	Natural cooling
Humidity	20 ~ 85% RH (non-condensing)
Altitude	<3000 m
Certification	IEC 62477, IEC 62619, IEC 60730, IEC 63056, IEC 61000, UN38.3
Warranty	5 years

① DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

② 25°C ± 2°C, 0.2C / 0.2C, 90% DOD, 70% EOL.