

DC12-100

Lead Acid Battery



- 30% higher cycle life than conventional batteries with SiO₂ and H₂SO₄ as compound gelled electrolyte
- Long float charging and cycle life, strong adaptability to ambient temperatures
- CE, IEC60896, and UL certifications
- Valve-regulated, maintenance free, no need to add water or acid during the use

System Overview

This gel-compounded lead acid battery is designated for scenarios where the battery needs to be deeply discharged frequently and used circularly. It adopts patented active substance formulations, corrosion-resistant grid alloys, and thickened plates to ensure strong corrosion resistance ability, and a cycle life 30% higher than conventional batteries. The battery can be widely applied in solar or wind power systems, mobile medical equipment, recreational vehicles, telecommunication base stations, UPS/EPS, and other fields.

Technical Specification

Function

Rated Voltage	12V DC
Capacity (25°C/77°F, 20hr)	106Ah
Capacity (25°C/77°F, 10hr)	100Ah
Capacity (25°C/77°F, 5hr)	87Ah
Capacity (25°C/77°F, 3hr)	77.4Ah
Float Voltage (25°C/77°F)	13.6V–13.8V DC
Cycle Voltage (25°C/77°F)	14.6V–14.8V DC
Max. Charging Current	20A (0.2C)
Max. Discharging Current	1000A (5 s)
Self-discharge (25°C/77°F)	≤3% discharge per month. It is recommended to recharge the battery every 3 months. Do not exceed 6 months.
Internal Resistance	5.5mΩ (fully charged at 25°C/77°F)
Design Life	12 years with float charging

General

Connection	Lead-out wire (4 mm ² , 1.0 m each)
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Product Dimensions	328.0 mm × 172.0 mm × 215.0 mm (12.91" × 6.77" × 8.46") (L × W × H)
Packaging Dimensions	345.0 mm × 182.0 mm × 257.0 mm (13.58" × 7.17" × 10.12") (L × W × H)
Packaging Method	1 pc in each carton
Casing Material	Acrylonitrile Butadiene Styrene (ABS), UL94-HB flame retardant by default
Product Color	Top: Dark gray The rest: Light gray
Net Weight	29.0 kg (63.9 lb)
Gross Weight	29.4kg (64.8 lb)

Environment

Discharging Temperature	–20°C to +60°C (–40°F to +140°F)
Charging Temperature	0°C to +50°C (+32°F to +122°F)
Operating Humidity	<95% (RH)
Recommended Storage Temperature	0°C to +40°C (+32°F to +104°F)
Storage Temperature	<95% (RH)

Certifications

Certifications	CE: EN61000-6-1, EN61000-6-3, EN60896-21, EN60896-22 IEC: IEC60896-21, IEC60896-22 UL: MH28539
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Package Information

12V 100Ah lead acid battery DC12-100	1 pc
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Ordering Information

Type	Model	Description
Lead Acid Battery	DC12-100	Valve-regulated Lead Acid Battery 12V 100Ah

Dimensions (mm[inch])



Performance

