BATTERY SYSTEMS / MANUFACTURER-STATED RATINGS

# LiTime 12V 100Ah Self-Heating LiFePO4 Battery

12.8 V nominal • 100 Ah • 1280 Wh • LiFePO4 chemistry

| 12.8 V | 100 Ah | 1280 Wh |
|---|---|---|
| NOMINAL VOLTAGE | RATED CAPACITY | RATED ENERGY |

## Electrical and BMS limits

| | |
|---|---|
| **BMS continuous current rating** | 100 A |
| **Maximum continuous discharge current** | 100 A |
| **Peak discharge current** | 500 A |
| **Peak discharge duration** | 1 s |
| **Maximum charge current** | 100 A |
| **Recommended charge current** | 20 A |
| **Charge voltage** | 14.4 V |

## Features and physical data

| | |
|---|---|
| **PVShop model** | PVS-BAT-D1448E2012 |
| **Cell chemistry** | LiFePO4 |
| **Product features** | self-heating, low-temperature charge protection |
| **Dimensions (L × W × H)** | L33 * W17.2 * H21.41 cm mm |
| **Weight** | 9.8 kg |
| **Ingress protection** | IP65 |
| **Terminals** | M8-bolts |
| **Charging temperature** | -20°C to 50°C |
| **Discharging temperature** | -20°C to 60°C |
| **Storage temperature** | -10°C to 50°C |
| **Maximum batteries in parallel** | 4 batteries |

## Selection note

Match nominal voltage, current limits, charge profile, physical size and environmental rating to the complete installation. Cable, fuse, busbar and disconnect ratings must follow the documented continuous current and local electrical rules.

DETAILED SPECIFICATION RECORD

# LiTime 12V 100Ah Self-Heating LiFePO4 Battery

## Additional manufacturer ratings

| | |
|---|---|
| **Series / parallel configuration** | 4P4S |
| **Cycle life** | 4000 cycles at 100% DOD, 6000 cycles at 80% DOD, 15.000 cycles at 60% DOD |
| **Certifications** | FCC, CE, RoHS, UN38.3 |
| **Charging temperature** | -20°C to 50°C |
| **Discharging temperature** | -20°C to 60°C |
| **Storage temperature** | -10°C to 50°C |
| **Low-temperature charge protection** | Yes / 0°C low-temperature charge protection |
| **Automatic low-temperature recovery** | Not available |
| **Terminals** | M8-bolts |
| **Dimensions (L × W × H)** | L33 * W17.2 * H21.41 cm |
| **Housing material** | ABS (Flammenhemmender plastic) |
| **Ingress protection** | IP65 |

## Evidence and revision control

| | |
|---|---|
| **PVShop model** | PVS-BAT-D1448E2012 |
| **Manufacturer record** | Current manufacturer product page and available manufacturer documents |
| **Evidence review date** | 12 September 2026 |
| **Specification policy** | Published values reproduced without performance estimates; undocumented fields remain blank |

**SOURCE STATUS** Manufacturer-stated; not independently laboratory tested by PVShop.

The source was reviewed on 12 September 2026. Ratings omitted by the manufacturer are intentionally left blank. Manufacturer pages can change; use the issue date and PVShop model above when requesting technical support.

Safety: follow the installation manual. Do not short-circuit, crush, puncture, dismantle or expose the battery to fire. Do not charge outside the published temperature range. Use a compatible CC/CV LiFePO4 charger and suitable over-current protection. A deep-cycle model is not a starting battery unless the manufacturer explicitly provides a starting-current rating.