BATTERY SYSTEMS / MANUFACTURER-STATED RATINGS

LiTime 12V 100Ah TM Low-Temperature LiFePO4 Marine 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-47D85DD94C
Cell chemistry	LiFePO4
Product features	low-temperature charge protection
Dimensions (L × W × H)	L330*W172*H216 mm
Weight	10.05 kg
Ingress protection	IP65
Terminals	M8-bolts
Charging temperature	0°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 TM Low-Temperature LiFePO4 Marine 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	0°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	Yes / 5°C
Terminals	M8-bolts
Dimensions (L × W × H)	L330*W172*H216 mm
Housing material	ABS
Ingress protection	IP65

Evidence and revision control

PVShop model	PVS-BAT-47D85DD94C
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.