BATTERY SYSTEMS / MANUFACTURER-STATED RATINGS

LiTime 36V 50Ah Group 31 Bluetooth LiFePO4 Marine Battery

38.4 V nominal • 50 Ah • 1920 Wh • LiFePO4 chemistry

38.4 V	50 Ah	1920 Wh
NOMINAL VOLTAGE	RATED CAPACITY	RATED ENERGY

Electrical and BMS limits

BMS continuous current rating	50 A
Maximum continuous discharge current	50 A
Peak discharge current	250 A
Peak discharge duration	1 s
Maximum charge current	50 A
Recommended charge current	10 A
Charge voltage	43.2 V

Features and physical data

PVShop model	PVS-BAT-AE62E44A58
Cell chemistry	LiFePO4
Product features	Bluetooth monitoring
Dimensions (L × W × H)	L330*W172*H216 mm
Weight	15 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 36V 50Ah Group 31 Bluetooth LiFePO4 Marine Battery

Additional manufacturer ratings

Series / parallel configuration	4P1S
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 low-temperature charge protection
Automatic low-temperature recovery	Yes
Terminals	M8-bolts
Dimensions (L × W × H)	L330*W172*H216 mm
Housing material	ABS
Ingress protection	IP65
Technical review note	The manufacturer page labels 250 A as both continuous discharge and a one-second peak. PVShop therefore uses the documented 50 A BMS/output rating as the conservative continuous limit.

Evidence and revision control

PVShop model	PVS-BAT-AE62E44A58
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.