

BATTERY SYSTEMS / MANUFACTURER-STATED RATINGS

WattCycle 48V 100Ah 3U Server Rack Battery with Bluetooth & Active Balancing

51.2 V nominal • 100 Ah • 5120 Wh • LiFePO4 chemistry

51.2 V
NOMINAL VOLTAGE

100 Ah
RATED CAPACITY

5120 Wh
RATED ENERGY

Electrical and BMS limits

BMS continuous current rating	100 A
Recommended charge current	20 A

Features and physical data

PVShop model	PVS-BAT-1EDB5DDCCA
Cell chemistry	LiFePO4
Product features	Bluetooth monitoring, low-temperature charge protection, active balancing
Dimensions (L × W × H)	L485mm x W450mm x H133
Weight	41.7 kg
Ingress protection	IP20
Maximum batteries in parallel	20 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

WattCycle 48V 100Ah 3U Server Rack Battery with Bluetooth & Active Balancing

Additional manufacturer ratings

Dimensions (L × W × H)	L485mm x W450mm x H133 mm
Terminals	M8 Bolts
Warranty	5+5 Years
Certifications	CE/FCC/UN38.3
Monthly Self Discharge	≤3%/Month
Series / parallel configuration	Max. 20 in Parallel
Charging Temperature	0°C-55°C
Discharging Temperature	-20°C-60°C
Storage Temperature	0°C-45°C

Evidence and revision control

PVShop model	PVS-BAT-1EDB5DDCCA
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.