BATTERY SYSTEMS / MANUFACTURER-STATED RATINGS

WattCycle 2.5kW 10kWh All-in-One AC Coupled Battery Storage System

51.2 V nominal • 200 Ah • 10000 Wh • LiFePO4 chemistry

51.2 V	200 Ah	10000 Wh
NOMINAL VOLTAGE	RATED CAPACITY	RATED ENERGY

Electrical and BMS limits

Maximum continuous discharge current	100 A
Maximum charge current	100 A
Charge voltage	56.8 V
Discharge cutoff voltage	44 V

Features and physical data

PVShop model	PVS-BAT-107DABC60F
Cell chemistry	LiFePO4
Product features	low-temperature charge protection
Dimensions (L × W × H)	500 × 210 × 800 mm
Weight	95 kg
Ingress protection	IP65

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 2.5kW 10kWh All-in-One AC Coupled Battery Storage System

Additional manufacturer ratings

Dimensions (L × W × H)	500 × 210 × 800 mm
Display	Touch Screen
Communication Protocol	PYLON 485
Battery Cycle Life	≥8000 Cycles @ 25℃, 70% EOL
Charging Method	Constant Current / Constant Voltage (CC/CV)
Charge Cut-Off Voltage	56–58.4V
Charge Stop Voltage	56.8V
Discharge Stop Voltage	44V
Input Current	Max. 100A
Output Current	Max. 100A
Discharge Current Protection	100A / 300S
Balancing Method	Active Balancing

Battery Discharge Efficiency	94% @ 48VDC
Rated Load	2.5kW
Surge Power	5kVA
Input Voltage Range	170–280Vac, L+N+PE
Input Frequency	48–51Hz
Output Voltage	208 / 220 / 230 / 240Vac
Output Frequency	50/60Hz ±0.1
Max. Ac Charging Current	50A
Grid-Tie Power	0–2500W
Operating Temperature	-10℃ to 55℃ (14℉ to 131℉)
Operating Humidity	0–98%

Evidence and revision control

PVShop model	PVS-BAT-107DABC60F
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.