



TECHNICAL DATA SHEET · V2 ELITE SERIES

24V 230Ah

V2 ELITE LiFePO4 BATTERY

MODEL C24230A · HEATED · BLUETOOTH · VICTRON CAN · IP67



25.6_v

NOMINAL VOLTAGE
20.0–29.2 V operating

230_{Ah}

CAPACITY
8S1P · 230 Ah cells

5.89_{kWh}

STORED ENERGY
5,888 Wh

110_A

CONTINUOUS DISCHARGE
2,816 W at 25.6 V

300_A

PEAK DISCHARGE
Short duration

110_A

CONTINUOUS CHARGE
200 A short duration

3,500+

CYCLE LIFE
Maintenance-free

16_P · 2_S

BANK LIMITS
3,680 Ah · 51.2 V

About this data sheet. It gives the published ratings, interfaces and configuration data for the C24230A. Ratings are at 25 °C unless stated. Figures are tagged **MODEL-SPECIFIC DATA** when they plot this battery's ratings and **CONCEPTUAL DIAGRAM** when they explain a principle; conceptual diagrams are not wiring instructions. Installation, charging and safety instructions are in the user manual.

Revision V02 · October 2026

Supersedes: V01 — User Guide C24230A (updated 2024-12-06).

Product page: epochbatteries.com/products/24v-230ah-v2-elite-lifepo4-battery

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01 OVERVIEW

PRODUCT DESCRIPTION, FEATURES AND USES

A 25.6 V, 230 Ah, 5.89 kWh lithium iron phosphate battery for 24 V RV, marine, trolling-motor, off-grid solar and backup systems. One managed case combines native Victron CAN communication, Bluetooth monitoring through the included battery gauge, internal self-heating for cold-weather charging, a UL 60691 internal fuse and an IP67 enclosure.



5.89 kWh IN ONE CASE

230 Ah at 25.6 V: one BMS, fewer interconnects and cleaner routing than a bank of small batteries.



NATIVE VICTRON CAN

Reports status and charge limits to compatible GX devices; DVCC hands charge control to the battery.



110 A CONTINUOUS

About 2,816 W DC at 25.6 V before inverter losses, for 24 V inverters and house loads.



SELF-HEATING

Warms the cells before charging; charging is supported from -30 °C (-22 °F) ambient.



IP67 ENCLOSURE

Dust-tight; protected against temporary immersion to 1 m for 30 minutes.



BLUETOOTH MONITORING

State of charge, cell voltages, temperatures and alerts in the Epoch Li-Ion app.



SCALABLE BANKS

Up to 16 in parallel (3,680 Ah) or 2 in series (51.2 V).



SMART BMS AND FUSE

Voltage, current, short-circuit and temperature protection; UL 60691 internal fuse; UL 1973 pack.

Applications

- 24 V RV, motorhome, travel-trailer and fifth-wheel house power
- Camper vans, overland and expedition vehicles
- Marine house banks, yachts and cruising boats
- 24 V trolling motors and marine electronics
- Off-grid 24 V solar storage, cabins and remote sites
- Home energy storage and backup power
- Victron-based systems with a compatible GX device
- Communications backup, commercial fleet and specialty power

Deep-cycle application notice

The C24230A is designed for high-capacity 24 V deep-cycle energy storage and house power. It is not a cranking battery. For engine starting, use a cranking-rated battery or confirm compatibility with Epoch and the engine manufacturer before installation.

In the box

- ✓ C24230A battery
- ✓ Communication harness
- ✓ Battery gauge (Bluetooth state-of-charge meter), mountable
- ✓ Mountable ON/OFF switch

Optional: Epoch V2 & V2-T Mounting Hardware (8D battery bracket), sold separately.

Controls and interfaces

- **Power button** on the battery, plus the included mountable ON/OFF switch.
- **Communication ports** for the harness and battery-to-battery CAN links (blue and black in Epoch's setup steps).
- **Battery gauge** (mountable) with Bluetooth: shows state of charge and connects to the Epoch Li-Ion app.
- **DIP switches** (8) set the Master, slaves and bank topology.

GENERAL

Battery type	Heated Bluetooth LiFePO4 deep-cycle battery with Victron communication
Chemistry	LiFePO4 (lithium iron phosphate)
Cell type	Prismatic LiFePO4
Cell configuration	8S1P (230 Ah cells)
Cycle life	3,500+ cycles
Self-discharge	≤ 3% per month
Maintenance	Maintenance-free
Warranty	11-year limited manufacturer warranty

02 ELECTRICAL RATINGS

VOLTAGE, CAPACITY AND CURRENT

VOLTAGE AND CAPACITY

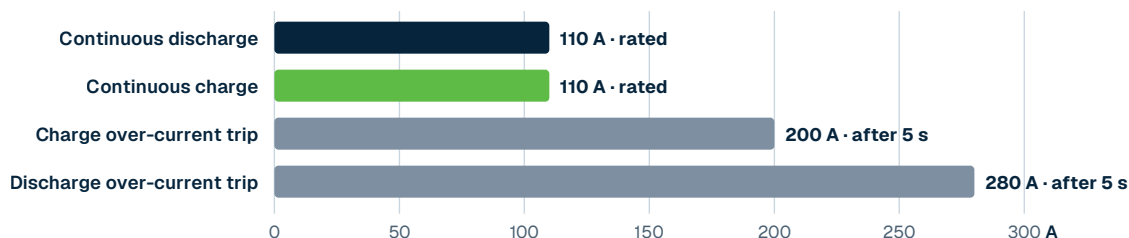
Nominal voltage	25.6 V (3.2 V per cell)
Nominal capacity	230 Ah
Stored energy	5,888 Wh (5.89 kWh)
Operating voltage range	20.0–29.2 V
Maximum charge voltage	29.2 V (3.65 V per cell)
Minimum voltage	20.0 V (2.5 V per cell)

CURRENT RATINGS

Maximum continuous discharge	110 A
Peak discharge	300 A (short duration)
Maximum continuous charge	110 A
Maximum charge, short duration	200 A
Continuous power at 25.6 V	2,816 W DC (before inverter losses)

C-rate: current ÷ rated capacity

0.5C = 0.5 × 230 Ah = 115 A. The 110 A continuous rating is about 0.48C.



MODEL-SPECIFIC DATA

Continuous ratings and BMS over-current trip points. Continuous charge and discharge are rated at 110 A. The BMS disconnects charging at 200 A and discharging at 280 A after a 5-second delay; short-circuit protection acts at 1,200 A.

Power at the terminals

Power (W) = voltage (V) × current (A)

25.6 V × 110 A = 2,816 W continuous DC, before inverter losses.

Energy

Energy (Wh) = nominal voltage × capacity

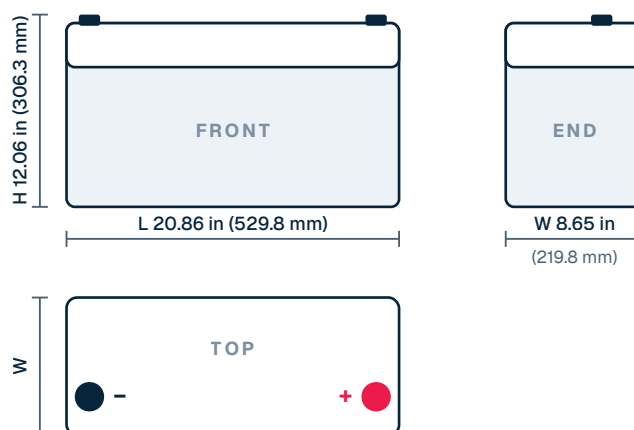
25.6 V × 230 Ah = 5,888 Wh (5.89 kWh).

03 MECHANICAL

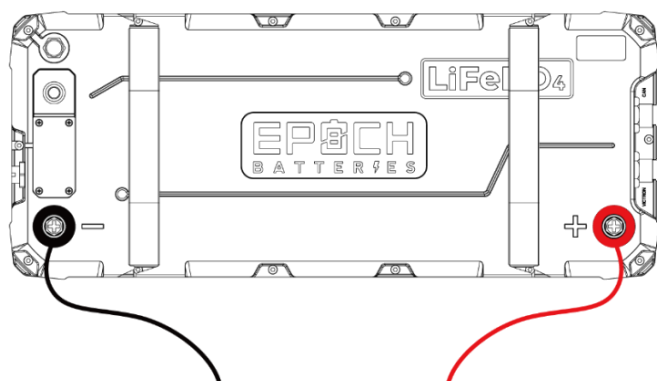
DIMENSIONS, TERMINALS AND MOUNTING

MECHANICAL DATA

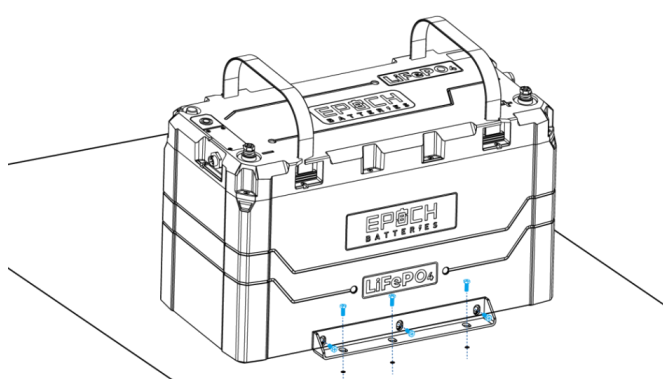
Dimensions (L × W × H)	20.86 × 8.65 × 12.06 in (529.8 × 219.8 × 306.3 mm)
Weight	97 lb (approx. 44 kg)
Terminals	M8 threaded
Terminal torque	8–12 N·m (71–106 lbf·in)
Mounting	Threaded inserts for the optional V2 & V2-T bracket
Mounting orientation	Upright
Case material	ABS + PC blend, UL94 V-0 flame rating
Enclosure	IP67: dust-tight, temporary immersion to 1 m for 30 min



MODEL-SPECIFIC DATA Outline dimensions. Height includes the terminal posts; allow extra space above the lid for cable lugs, bend radius and service access.



MODEL-SPECIFIC DATA Terminal polarity, top view: negative (-) at left, positive (+, red) at right.



MODEL-SPECIFIC DATA Mounting bracket (sold separately) fastened to the case. Install upright.

04 CHARGING AND HEATING

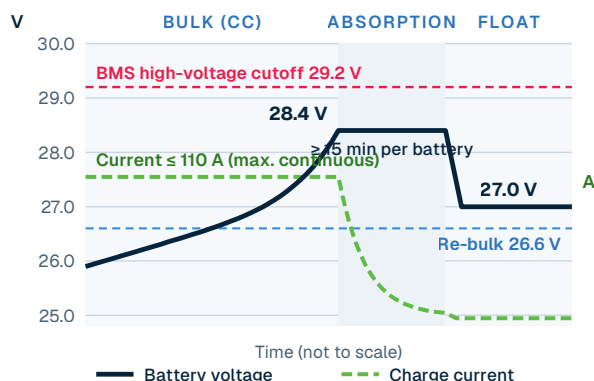
CHARGER SETTINGS AND TEMPERATURE LIMITS

CHARGER SETTINGS

Charger type	Lithium (LiFePO4) compatible, CC/CV
Bulk / absorption voltage	28.4 V
Absorption time	At least 15 min per battery in the bank
Float voltage	27.0 V
Re-bulk voltage	26.6 V
Equalization	Disabled
Temperature compensation	Disabled (0 mV/°C)
BMS high-voltage cutoff	29.2 V
Victron GX (DVCC)	DVCC on; controlling BMS and battery monitor set to Epoch

TEMPERATURE

Charge, cell temperature	0 to 55 °C (32 to 131 °F)
Charge with self-heating, ambient	-30 to 55 °C (-22 to 131 °F)
Discharge	-20 to 55 °C (-4 to 131 °F)
Storage, up to 1 month	-20 to 45 °C (-4 to 113 °F)
Storage, up to 1 year	0 to 35 °C (32 to 95 °F)
Best performance	15 to 25 °C (59 to 77 °F)



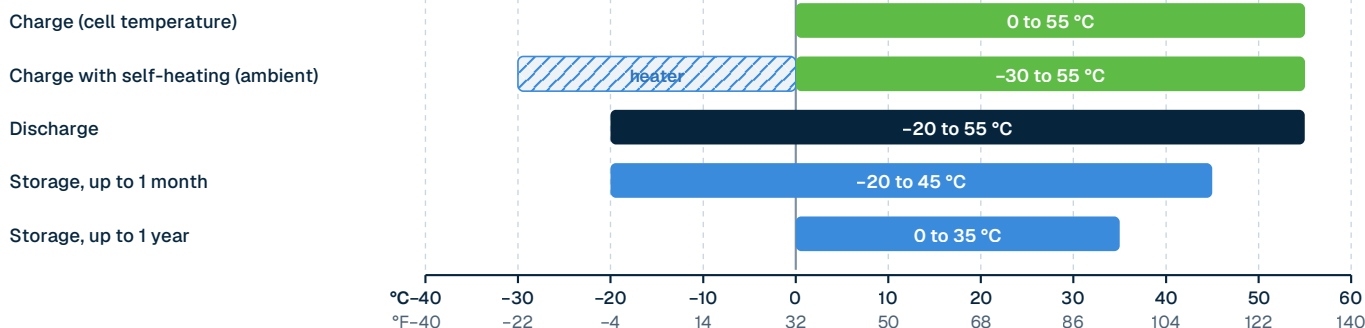
CONCEPTUAL DIAGRAM Charge stages. The curve shape is illustrative; the setpoints are this model's published values. Under Victron DVCC the battery sets these limits automatically.

Program every charge source (inverter/charger, solar, DC-DC, shore charger) to the same values, including Victron equipment, so charging stays correct if CAN communication is lost.

How self-heating works

LiFePO4 cells must not be charged below 0 °C (32 °F). When a charge source is connected and the cells are too cold, the BMS holds off normal charging and uses the internal heater to warm the cells. Charging resumes once the cells are warm enough (charge low-temperature protection releases at 5 °C). With self-heating, charging is supported from an ambient temperature of -30 °C (-22 °F).

Discharge is available down to -20 °C (-4 °F) without heating.



MODEL-SPECIFIC DATA Temperature windows. The hatched band is the range where the heater must warm the cells before charging.

05 PROTECTION AND RUNTIME

BATTERY MANAGEMENT SYSTEM AND PLANNING DATA

BMS PROTECTION SETTINGS

Overcharge	3.65 ± 0.01 V per cell (29.2 V); release 3.45 ± 0.01 V per cell (27.6 V)
Over-discharge	2.70 ± 0.05 V per cell (21.6 V); release 3.00 ± 0.05 V per cell (24.0 V)
Charge over-current	200 A, 5,000 ms delay; release 125 A
Discharge over-current	280 A, 5,000 ms delay
Short circuit	1,200 A
Internal fuse	270 A rated; 1,200 A transient overload for 3 s; UL 60691
Charge temperature	Low 0 °C, release 5 °C; high 55 °C, release 50 °C
Discharge temperature	Low -20 °C, release -17 °C; high 55 °C, release 50 °C
Self-consumption	20 mA powered on; 200 µA powered off

Pack voltages are 4 × the cell value. Protection thresholds are safety limits, not operating targets: design the system so the BMS does not trip in normal use.

Runtime planning

Runtime (h) ≈ planning energy (Wh) ÷ load (W)

Planning energy = 80% of 5,888 Wh = 4,710 Wh, leaving reserve for battery life and cold conditions.

100 W		≈ 47 h
250 W		≈ 19 h
500 W		≈ 9.4 h
1,000 W		≈ 4.7 h
1,500 W		≈ 3.1 h
2,000 W		≈ 2.4 h
2,816 W		≈ 1.7 h

Planning energy 4,710 Wh (80% of 5,888 Wh) at the battery terminals; excludes inv

MODEL-SPECIFIC DATA

Estimated runtime for a constant DC load at the battery terminals. Inverter losses, cable losses and temperature reduce runtime.

RUNTIME BY DC CURRENT

LOAD CURRENT	5 A	10 A	25 A	50 A	100 A	110 A
Runtime ≈	36.8 h	18.4 h	7.4 h	3.7 h	1.8 h	1.7 h

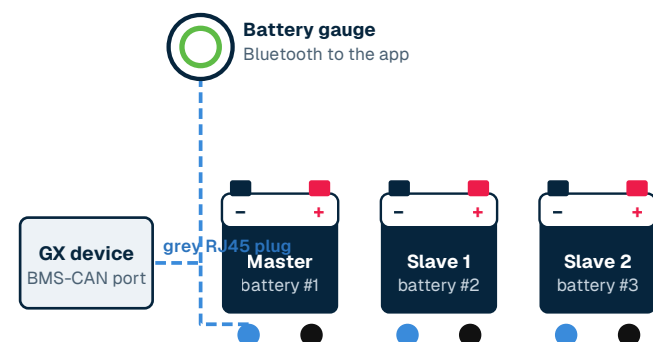
Based on 184 Ah planning capacity (80% of 230 Ah).

06 COMMUNICATION AND DIP SWITCHES

VICTRON GX, BLUETOOTH AND BANK TOPOLOGY

COMMUNICATION

Bluetooth	Through the included battery gauge
App	Epoch Li-Ion (iOS and Android)
CAN bus	500 kbit/s; Victron GX BMS-CAN or VE.Can
Firmware updates	Over the air through the app
Controls	Power button; mountable ON/OFF switch and battery gauge included
Series connection	Up to 2 batteries (51.2 V nominal)
Parallel connection	Up to 16 batteries (3,680 Ah)



CONCEPTUAL DIAGRAM Communication chain for a three-battery parallel bank. Port colors follow Epoch's setup instructions.

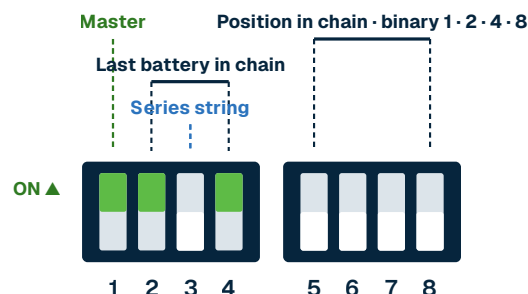
ROLE SWITCHES 1-4

BATTERY ROLE	1	2	3	4
Standalone battery	ON	ON	-	ON
Parallel bank · Master (battery #1)	ON	-	-	-
Parallel bank · middle slave	-	-	-	-
Parallel bank · last slave	-	ON	-	ON
Series string · Master (battery #1)	ON	-	ON	-
Series string · middle slave	-	-	ON	-
Series string · last slave	-	ON	ON	ON

These rules reproduce all 138 settings published for this model: standalone, parallel banks of 2-16 and series strings of 48 V.

Victron GX commissioning (summary)

- 1 Set the DIP switches on every battery.
- 2 Fit the harness plug with the waterproof bung into the Master's blue port; link batteries from each black port to the next battery's blue port.
- 3 Plug the grey RJ45 plug into the GX BMS-CAN port (Cerbo GX Mk2: VE.Can 1 or 2 at 500 kbit/s).
- 4 Turn on DVCC; set the controlling BMS and battery monitor to Epoch.
- 5 Check that modules online and installed Ah match the bank.



MODEL-SPECIFIC DATA DIP switch roles (knob up = ON, shown green). Shown: the standalone setting, switches 1, 2 and 4 ON.

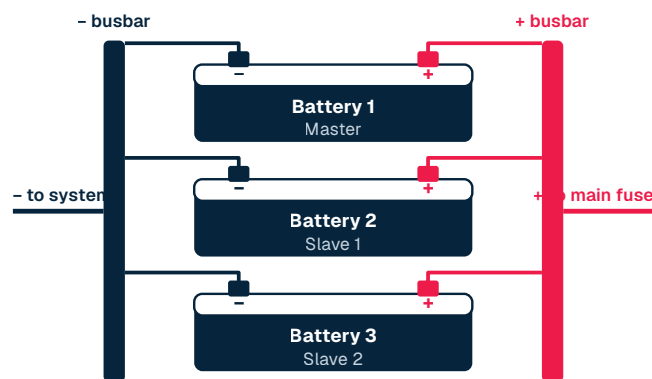
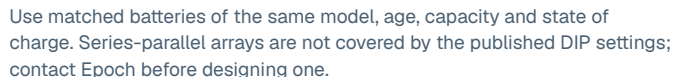
POSITION SWITCHES 5-8 (BATTERY #N IS SLAVE N - 1)

BATTERY	5	6	7	8	BATTERY	5	6	7	8
#1 Master	-	-	-	-	#9	-	-	-	ON
#2	ON	-	-	-	#10	ON	-	-	ON
#3	-	ON	-	-	#11	-	ON	-	ON
#4	ON	ON	-	-	#12	ON	ON	-	ON
#5	-	-	ON	-	#13	-	-	ON	ON
#6	ON	-	ON	-	#14	ON	-	ON	ON
#7	-	ON	ON	-	#15	-	ON	ON	ON
#8	ON	ON	ON	-	#16	ON	ON	ON	ON

SERIES STRINGS AND PARALLEL BANKS

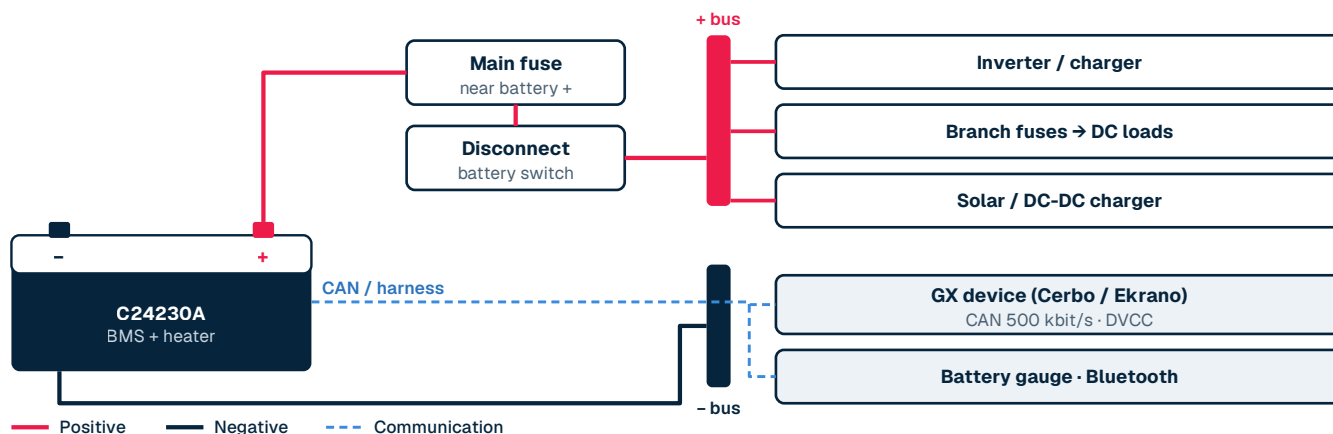
PARALLEL BANKS (UP TO 16)

BATTERIES	CAPACITY	ENERGY	BATTERIES	CAPACITY	ENERGY
1P	230 Ah	5.89 kWh	9P	2,070 Ah	52.99 kWh
2P	460 Ah	11.78 kWh	10P	2,300 Ah	58.88 kWh
3P	690 Ah	17.66 kWh	11P	2,530 Ah	64.77 kWh
4P	920 Ah	23.55 kWh	12P	2,760 Ah	70.66 kWh
5P	1,150 Ah	29.44 kWh	13P	2,990 Ah	76.54 kWh
6P	1,380 Ah	35.33 kWh	14P	3,220 Ah	82.43 kWh
7P	1,610 Ah	41.22 kWh	15P	3,450 Ah	88.32 kWh
8P	1,840 Ah	47.1 kWh	16P	3,680 Ah	94.21 kWh



25.6 V · 3 × 230 Ah = 690 Ah · equal-length battery cables

CONCEPTUAL DIAGRAM Parallel bank with busbars and equal-length battery cables, which share current evenly and simplify expansion.



CONCEPTUAL DIAGRAM Typical single-battery system: main fuse close to the battery positive, a disconnect, busbars, branch protection and CAN communication to a GX device. Follow applicable codes for the final design.

08 SAFETY, COMPLIANCE AND REVISION

CERTIFICATIONS, ACCESSORIES AND DOCUMENT HISTORY

COMPLIANCE

Battery pack	UL 1973
Cells	UL 1642; UL 9540A; IEC 62619:2022
Internal fuse	UL 60691 (TEX150-R1N-XBZ)
Other	CE, RoHS
Transport	UN 3480, Class 9

Safety summary

- Use only LiFePO4-compatible chargers set to the values in section 04; never exceed 29.2 V.
- Install a DC-rated fuse or breaker close to the battery positive. The internal 270 A fuse does not replace system protection.
- Tighten M8 terminals to 8–12 N·m and keep terminal covers fitted.
- Lift with two people or a lifting aid (97 lb, approx. 44 kg) and install upright.
- IP67 covers dust and temporary immersion (1 m, 30 min); it does not cover pressure washing.
- For fire, use a Class D extinguisher, sand or dry powder, as stated in the user manual.

REVISION HISTORY

REV.	DATE	DESCRIPTION
V01	2024-12-06	User Guide C24230A (C24230AC05-000026).
V02	2026-10-03	New document set. Specifications reconciled with the product page, the V01 user guide and the internal troubleshooting guide. Where current ratings conflict, the user guide values that match the BMS limits are printed. DIP switch maps redrawn as vector tables.

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