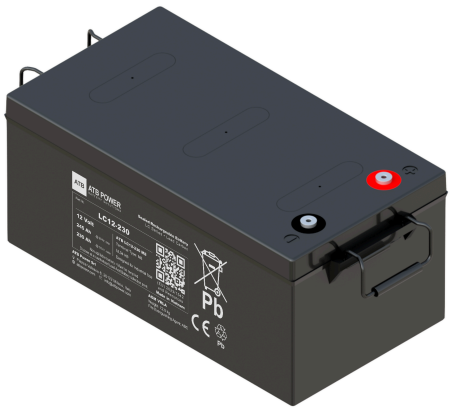
ATB-AGM-LC12-230

Lead-carbon AGM. Built for partial state of charge.

A 12 V 245 Ah lead-carbon AGM VRLA battery. A carbon additive in the negative active material suppresses sulfation under partial state of charge, giving higher cycle life and faster charge acceptance. Sealed, maintenance-free and non-spillable, with M8 bolt terminals.



12 V	245 Ah	1500 A	72 kg
NOMINAL VOLTAGE	C20 CAPACITY @ 25°C	MAX DISCHARGE (5 S)	APPROX. WEIGHT

Sealed AGM VRLA

Valve-regulated oxygen-recombination design. Maintenance-free and non-spillable: no electrolyte topping and no acid handling.

M8 bolt terminals

Threaded M8 terminals for secure bolted cable connections in UPS, telecom and storage systems.

Carbon-enhanced plates

Carbon in the negative plate resists sulfation in partial-state-of-charge use.

Standard footprint

520 × 268 × 225 mm case.

SPECIFICATIONS

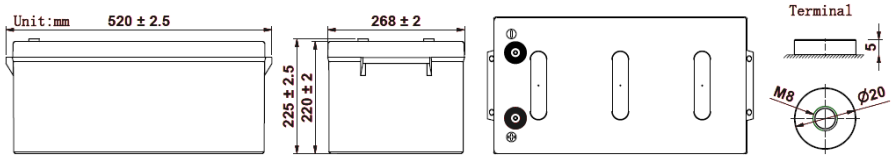
MECHANICAL

Length	**520 mm ±2.5**
Width	**268 mm ±2.0**
Container height	**220 mm ±2.5**
Overall height	**225 mm ±2.5**
Approx. weight	**72 kg ±3%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**M8 bolt terminal**

ELECTRICAL

Nominal voltage	**12 V**
Chemistry	**AGM VRLA (sealed)**
Capacity, 20 hr (C20)	**245 Ah**
Capacity, 10 hr (C10)	**230 Ah**
Capacity, 5 hr (C5)	**208.3 Ah**
Rating basis	**to 1.80 V/cell @ 25°C**
Float voltage @ 25°C	**13.5 – 13.8 V**
Equalizing voltage @ 25°C	**14.4 – 15.0 V**
Max charge current	**75 A**
Max discharge current	**1500 A (5 s)**
Internal resistance (charged)	**≈ 3.0 mΩ**
Operating temp. (dis / chg)	**−15°C~50°C / −15°C~40°C**
Storage temp.	**−15°C~40°C**

CONTAINER DRAWING — DIMENSIONS IN MM



ATB-AGM-LC12-230 — technical data

CONSTANT CURRENT DISCHARGE @ 25°C · UNIT: A · ATB DERATED

F.V (V/cell) / Time	30 min	45 min	1 h	3 h	5 h	8 h	10 h	20 h
1.60 V	245	177	148	64.8	44.7	28.8	23.9	12.8
1.67 V	242	175	146	64.4	44.0	28.3	23.7	12.6
1.70 V	239	172	145	63.6	43.1	27.9	23.5	12.4
1.75 V	234	169	142	62.5	42.3	27.4	23.3	12.3
1.80 V	229	163	135	61.3	41.7	27.4	23.0	12.2
1.85 V	210	154	130	56.5	39.8	26.0	21.5	11.8

CONSTANT POWER DISCHARGE @ 25°C · UNIT: W/CELL · ATB DERATED

F.V (V/cell) / Time	30 min	45 min	1 h	3 h	5 h	8 h	10 h	20 h
1.60 V	450	329	280	124	86.4	56.4	46.5	25.2
1.67 V	448	327	278	124	85.4	55.7	46.0	25.0
1.70 V	444	324	275	123	84.0	55.0	45.5	24.7
1.75 V	439	321	271	121	83.0	54.3	45.1	24.5
1.80 V	434	311	260	119	81.8	54.1	44.9	24.2
1.85 V	401	296	252	110	78.0	51.5	42.8	23.5

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

Temperature	Capacity (10 HR)
40 °C	102%
25 °C	100%
0 °C	85%
−15 °C	65%

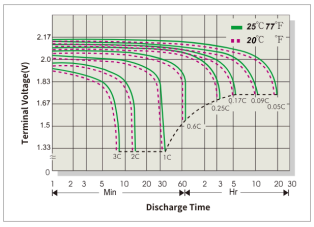
SELF-DISCHARGE CHARACTERISTICS

Storage time	Remaining capacity
3 months	91%
6 months	82%
12 months	64%

CHARACTERISTIC CURVES

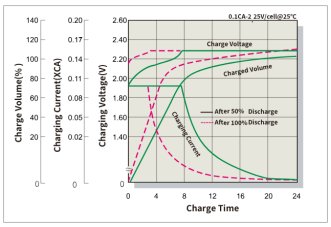
Discharge Characteristics

TERMINAL VOLTAGE (V/CELL) vs DISCHARGE TIME · 25°C / 20°C



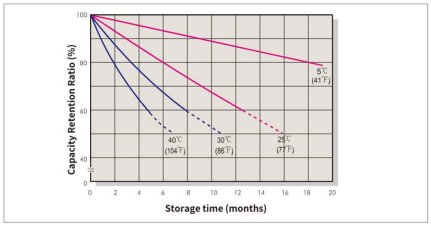
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



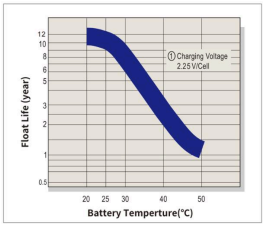
Capacity Retention (Self-Discharge)

CAPACITY RETENTION RATIO vs STORAGE TIME



Float Service Life

FLOAT LIFE vs BATTERY TEMPERATURE · 2.25 V/CELL



STANDARDS & QUALITY

AGM VRLA batteries produced by an ATB-approved manufacturing partner whose VRLA batteries are UL-recognized components under UL 1989, in facilities certified to ISO 9001, ISO 14001 and ISO 45001. Sealed, non-spillable VRLA construction.

Values are subject to variation of ±5% under normal manufacturing processes. Technical specifications are subject to change without prior notice. Curves represent typical performance for the AGM VRLA cell platform at the stated reference conditions. This product is engineered, specified and branded by ATB Power. E&OE. © ATB Power.