ATB-AGM-2V-2000

2 V AGM cells.
Long-life standby power.

A 2 V 2120 Ah 2 V AGM VRLA cell for telecom, networking, UPS and utility standby applications. Sealed, maintenance-free and non-spillable, with M8 bolt terminals.



2 V	2120 Ah	6000 A	111 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.

Single-cell format
2 V cells build 12, 24, 48 V and higher strings for standby systems.

Standard footprint
476 × 337 × 342 mm case.

SPECIFICATIONS

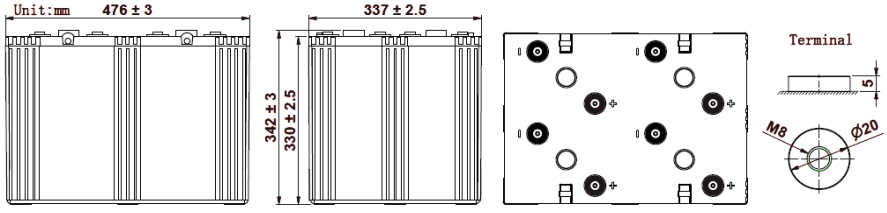
MECHANICAL

Length	**476 mm ±3.0**
Width	**337 mm ±2.5**
Container height	**330 mm ±2.5**
Overall height	**342 mm ±3.0**
Approx. weight	**111 kg ±3%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**M8 bolt terminal**

ELECTRICAL

Nominal voltage	**2 V**
Chemistry	**AGM VRLA (sealed)**
Capacity, 20 hr (C20)	**2120 Ah**
Capacity, 10 hr (C10)	**2000 Ah**
Capacity, 5 hr (C5)	**1710 Ah**
Rating basis	**to 1.80 V/cell @ 25°C**
Float voltage @ 25°C	**2.25 – 2.30 V**
Equalizing voltage @ 25°C	**2.35 – 2.40 V**
Max charge current	**600 A**
Max discharge current	**6000 A (5 s)**
Internal resistance (charged)	**≈ 0.4 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-2V-2000 — technical data

CONSTANT CURRENT DISCHARGE @ 25°C · UNIT: A

F.V (V/cell) / Time	30 min	45 min	1 h	3 h	5 h	8 h	10 h	20 h
1.60 V	1687	1429	1227	563	373	257	213	111
1.67 V	1656	1359	1170	543	363	251	208	109
1.70 V	1611	1329	1146	535	358	249	206	109
1.75 V	1514	1281	1105	520	350	245	203	107
1.80 V	1447	1231	1066	507	342	240	200	106
1.85 V	1260	1101	963	468	318	224	187	101

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

F.V (V/cell) / Time	30 min	45 min	1 h	3 h	5 h	8 h	10 h	20 h
1.60 V	2961	2667	2303	1081	724	503	417	221
1.67 V	2933	2563	2217	1049	705	493	409	217
1.70 V	2882	2519	2182	1036	699	489	406	215
1.75 V	2733	2446	2119	1011	685	481	401	213
1.80 V	2635	2369	2058	989	672	473	395	211
1.85 V	2313	2134	1873	918	625	443	371	200

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

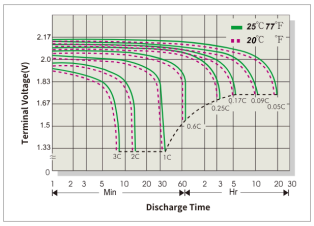
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

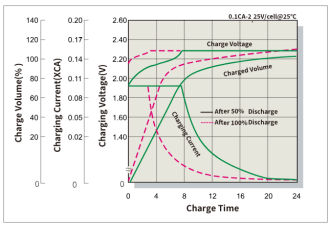
Discharge Characteristics

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



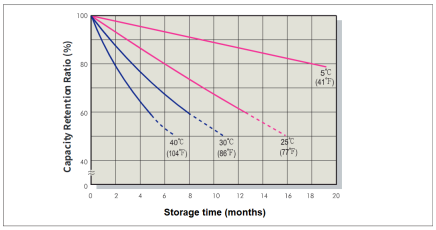
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



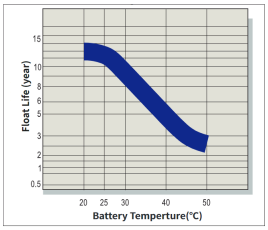
Capacity Retention (Self-Discharge)

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.