ATB-AGM-2V-600

2 V AGM cells.
Long-life standby power.

A 2 V 636 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	636 Ah	2400 A	34.5 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
285 × 171 × 342 mm case.

SPECIFICATIONS

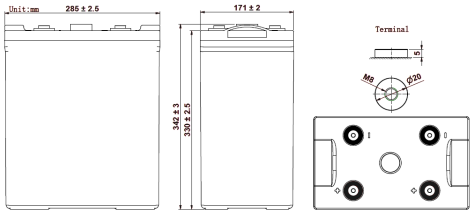
MECHANICAL

Length	**285 mm ±2.5**
Width	**171 mm ±2.0**
Container height	**330 mm ±2.5**
Overall height	**342 mm ±3.0**
Approx. weight	**34.5 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)	**636 Ah**
Capacity, 10 hr (C10)	**600 Ah**
Capacity, 5 hr (C5)	**515 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	**180 A**
Max discharge current	**2400 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-600 — 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	506	429	368	169	112	77.2	63.8	33.4
1.67 V	497	408	351	163	109	75.4	62.4	32.8
1.70 V	483	399	344	161	107	74.6	61.8	32.6
1.75 V	454	384	332	156	105	73.4	61.0	32.2
1.80 V	434	369	320	152	103	72.0	60.0	31.8
1.85 V	378	330	289	140	95.4	67.2	56.2	30.2

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	888	800	691	324	217	151	125	66.2
1.67 V	880	769	665	315	212	148	123	65.2
1.70 V	865	756	655	311	210	147	122	64.6
1.75 V	820	734	636	303	205	144	120	64.0
1.80 V	790	711	617	297	202	142	119	63.2
1.85 V	694	640	562	275	188	133	111	60.0

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

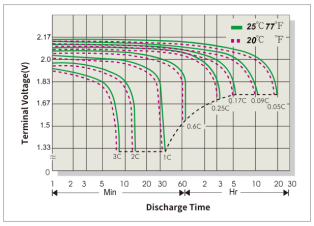
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

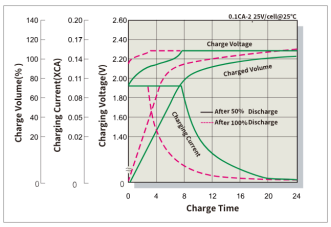
Discharge Characteristics

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



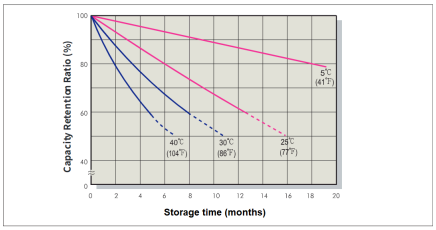
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



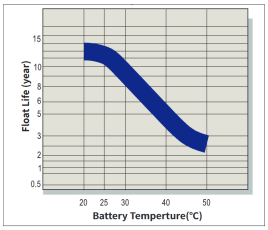
Capacity Retention (Self-Discharge)

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.