ATB-AGM-GP6-4.5

Compact sealed AGM. Dependable backup power.

A 6 V 4.5 Ah general-purpose AGM VRLA battery for security and alarm systems, UPS, emergency lighting and portable equipment. Valve-regulated oxygen-recombination construction with corrosion-resistant alloy grids, a high-strength AGM separator and high-purity active materials gives low self-discharge and long service life, in a sealed, maintenance-free, non-spillable package with faston tab terminals.



6 V	4.5 Ah	67.5 A	0.7 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.

Faston tab terminals

4.75 mm T1 faston tabs for quick, tool-light connection in OEM assemblies, alarms and equipment.

Long service life

Corrosion-resistant alloy grids and a high-strength AGM separator with high-purity active materials give low self-discharge and long float life.

Compact & versatile

70 × 47 × 106 mm case for panels, alarms and portable equipment.

SPECIFICATIONS

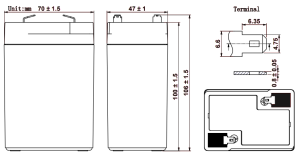
MECHANICAL

Length	**70 mm ±1.5**
Width	**47 mm ±1.5**
Container height	**100 mm ±1.5**
Overall height	**106 mm ±1.5**
Approx. weight	**0.7 kg ±5%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**Faston T1 (4.75 mm tab)**

ELECTRICAL

Nominal voltage	**6 V**
Chemistry	**AGM VRLA (sealed)**
Capacity, 20 hr (C20)	**4.5 Ah**
Capacity, 10 hr (C10)	**4.2 Ah**
Capacity, 5 hr (C5)	**3.8 Ah**
Rating basis	**to 1.75 V/cell @ 25°C**
Float voltage @ 25°C	**6.75 – 6.9 V**
Equalizing voltage @ 25°C	**7.2 – 7.5 V**
Max charge current	**1.35 A**
Max discharge current	**67.5 A (5 s)**
Internal resistance (charged)	**≈ 30 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-GP6-4.5 — technical data

CONSTANT CURRENT DISCHARGE @ 25°C · UNIT: A

F.V (V/cell) / Time	5 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1.60 V	15.6	7.59	4.42	2.75	1.18	0.797	0.434	0.232
1.67 V	14.3	7.26	4.29	2.68	1.16	0.784	0.428	0.229
1.70 V	13.8	7.14	4.22	2.66	1.15	0.778	0.424	0.228
1.75 V	12.8	6.88	4.13	2.61	1.14	0.765	0.420	0.225
1.80 V	11.9	6.62	4.04	2.57	1.12	0.759	0.414	0.223
1.85 V	10.9	6.36	3.93	2.51	1.11	0.746	0.410	0.221

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

F.V (V/cell) / Time	5 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1.60 V	28.7	14.2	8.36	5.25	2.31	1.56	0.861	0.464
1.67 V	26.6	13.7	8.16	5.16	2.27	1.54	0.849	0.458
1.70 V	25.7	13.4	8.04	5.11	2.25	1.52	0.842	0.455
1.75 V	24.0	13.1	7.91	5.04	2.22	1.51	0.829	0.450
1.80 V	22.4	12.7	7.78	4.97	2.20	1.49	0.823	0.446
1.85 V	20.8	12.3	7.59	4.89	2.17	1.47	0.816	0.441

EFFECT OF TEMPERATURE ON CAPACITY (20 HR)

Temperature	Capacity (20 HR)
40 °C	102%
25 °C	100%
0 °C	85%
−15 °C	65%

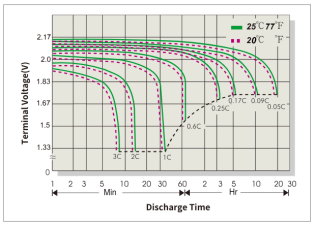
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

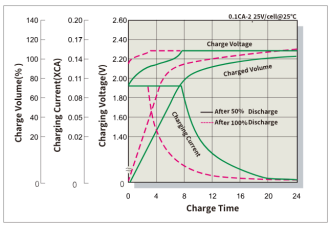
Discharge Characteristics

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



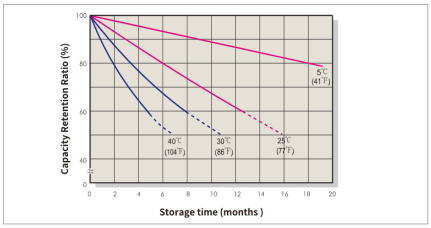
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



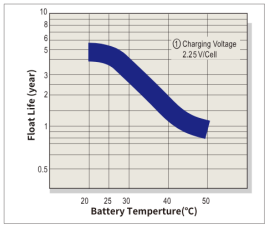
Capacity Retention (Self-Discharge)

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.