ATB-AGM-GP12-230

Sealed AGM power.
Built for standby duty.

A 12 V 240 Ah general-purpose AGM VRLA battery for UPS, telecom, security and emergency lighting systems and energy storage. 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 M8 bolt terminals.



12 V	240 Ah	1380 A	65 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.

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.

Standard footprint

520 × 268 × 225 mm case for battery cabinets, racks and UPS enclosures.

SPECIFICATIONS

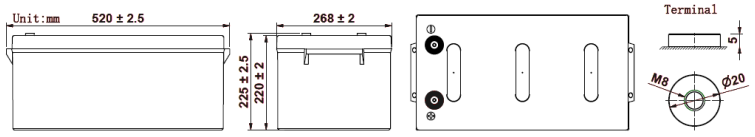
MECHANICAL

Length	**520 mm ±2.5**
Width	**268 mm ±2.0**
Container height	**220 mm ±2.5**
Overall height	**225 mm ±2.5**
Approx. weight	**65 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)	**240 Ah**
Capacity, 10 hr (C10)	**230 Ah**
Capacity, 5 hr (C5)	**200 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	**69 A**
Max discharge current	**1380 A (5 s)**
Internal resistance (charged)	**≈ 3.5 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-GP12-230 — 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	235	170	143	62.2	42.9	28.8	23.9	12.4
1.67 V	232	168	141	61.7	42.3	28.3	23.7	12.2
1.70 V	228	166	139	61.1	41.3	27.8	23.5	12.1
1.75 V	224	162	136	60.0	40.6	27.4	23.2	12.0
1.80 V	219	157	129	58.9	40.0	27.4	23.0	11.8
1.85 V	201	148	125	54.3	38.1	26.0	21.5	11.4

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	432	316	268	119	82.9	56.4	46.5	24.4
1.67 V	430	315	266	119	82.0	55.7	46.0	24.2
1.70 V	427	312	264	118	80.6	55.0	45.5	23.9
1.75 V	422	308	260	116	79.7	54.3	45.1	23.7
1.80 V	417	299	249	114	78.5	54.1	44.9	23.5
1.85 V	385	284	242	106	74.8	51.5	42.8	22.7

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

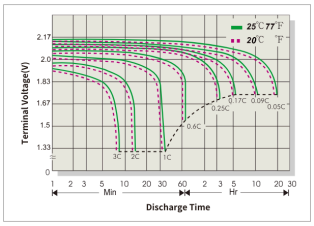
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

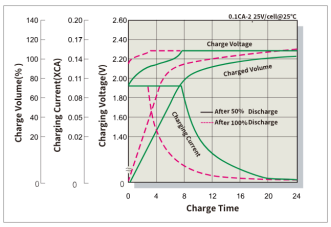
Discharge Characteristics

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



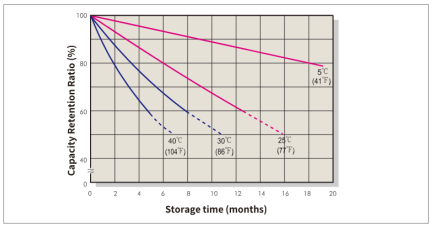
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



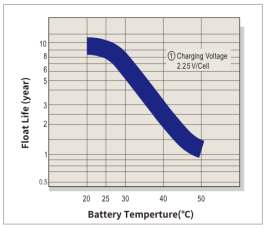
Capacity Retention (Self-Discharge)

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.