ATB-AGM-HR12-300

High-rate AGM.
Power for UPS bursts.

A 12 V 78 Ah high-rate AGM VRLA battery for short-duration, high-current UPS discharge. Sealed, maintenance-free and non-spillable, with M6 bolt terminals.



12 V	300 W	780 A	24.0 kg
NOMINAL VOLTAGE	PER CELL · 15 MIN TO 1.67 V	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.

M6 bolt terminals
Threaded M6 terminals for secure bolted cable connections in UPS and standby systems.

High-rate discharge
Optimised for short, high-current discharge in UPS systems.

Standard footprint
260 × 168 × 216 mm case.

SPECIFICATIONS

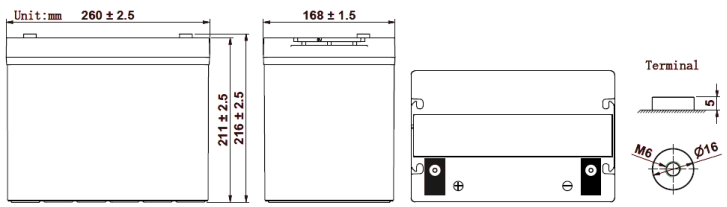
MECHANICAL

Length	**260 mm ±2.5**
Width	**168 mm ±1.5**
Container height	**211 mm ±2.5**
Overall height	**216 mm ±2.5**
Approx. weight	**24.0 kg ±5%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**M6 bolt terminal**

ELECTRICAL

Nominal voltage	**12 V**
Chemistry	**AGM VRLA (sealed)**
Nominal capacity	**300 W/cell (15 min to 1.67 V/cell, 25°C) · 78 Ah (C20) · 52 Ah (C1)**
Float voltage @ 25°C	**13.5 – 13.8 V**
Equalizing voltage @ 25°C	**14.4 – 15.0 V**
Max charge current	**23.40 A**
Max discharge current	**780.00 A (5 s)**
Internal resistance (charged)	**≈ 6.0 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-HR12-300 — technical data

CONSTANT CURRENT DISCHARGE @ 25°C · UNIT: A

F.V (V/cell) / Time	5 min	8 min	10 min	15 min	20 min	30 min	60 min	90 min
1.60 V	244	214	198	166	135	99.5	57.6	41.3
1.67 V	222	196	183	155	127	94.2	55.0	39.7
1.70 V	212	189	176	150	123	91.9	53.9	38.9
1.75 V	196	176	165	142	117	88.0	52.0	37.7
1.80 V	179	163	154	134	112	84.3	50.1	36.4

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

F.V (V/cell) / Time	5 min	8 min	10 min	15 min	20 min	30 min	60 min	90 min
1.60 V	449	398	372	316	260	193	108.2	78.2
1.67 V	418	374	351	300	248	185	104.1	75.6
1.70 V	404	363	342	293	242	182	102.4	74.6
1.75 V	379	343	325	280	233	176	99.6	72.5
1.80 V	353	322	306	268	224	170	96.6	70.6

EFFECT OF TEMPERATURE ON CAPACITY (20 HR)

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

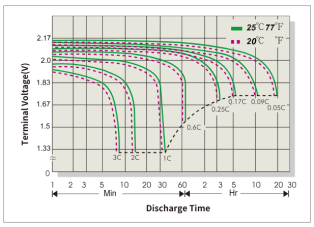
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

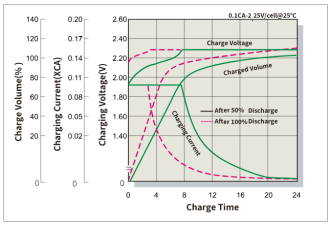
Discharge Characteristics

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



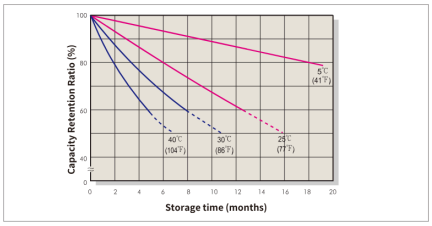
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



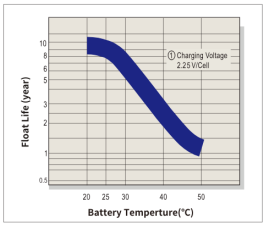
Capacity Retention (Self-Discharge)

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.