ATB-AGM-HR12-250

High-rate AGM.
Power for UPS bursts.

A 12 V 57 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	250 W	570 A	18.0 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
230 × 138 × 215 mm case.

SPECIFICATIONS

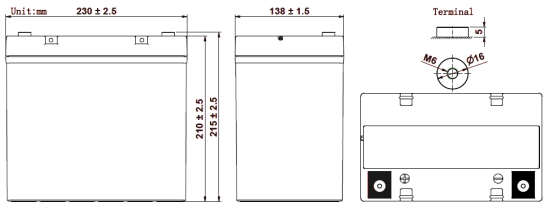
MECHANICAL

Length	**230 mm ±2.0**
Width	**138 mm ±1.5**
Container height	**210 mm ±2.5**
Overall height	**215 mm ±2.5**
Approx. weight	**18.0 kg ±3%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**M6 bolt terminal**

ELECTRICAL

Nominal voltage	**12 V**
Chemistry	**AGM VRLA (sealed)**
Nominal capacity	**250 W/cell (15 min to 1.67 V/cell, 25°C) · 57 Ah (C20) · 43.3 Ah (C1)**
Float voltage @ 25°C	**13.5 – 13.8 V**
Equalizing voltage @ 25°C	**14.4 – 15.0 V**
Max charge current	**17.10 A**
Max discharge current	**570.00 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-HR12-250 — 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	210	182	167	138	113	83.0	48.0	34.5
1.67 V	190	167	154	129	106	78.5	45.8	33.1
1.70 V	182	160	148	125	103	76.6	44.9	32.4
1.75 V	168	149	139	118	97.7	73.4	43.3	31.4
1.80 V	154	138	130	112	93.1	70.3	41.8	30.4

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	386	339	313	263	216	161	90.2	65.2
1.67 V	359	318	296	250	206	155	86.8	63.0
1.70 V	347	308	288	244	202	151	85.4	62.1
1.75 V	326	291	273	234	194	146	83.0	60.4
1.80 V	303	274	258	223	187	141	80.5	58.8

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

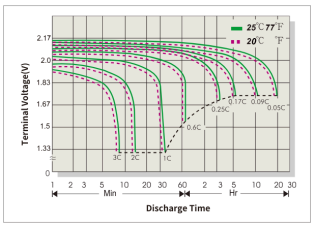
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

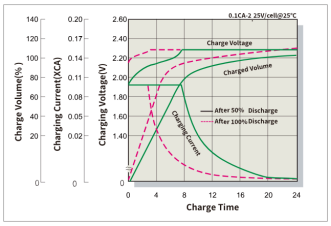
Discharge Characteristics

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



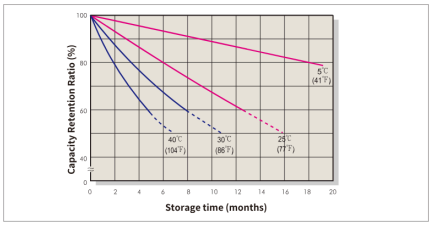
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



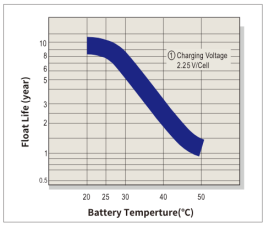
Capacity Retention (Self-Discharge)

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.