ATB-AGM-HR12-92

High-rate AGM.
Power for UPS bursts.

A 12 V 22 Ah high-rate AGM VRLA battery for short-duration, high-current UPS discharge. Sealed, maintenance-free and non-spillable, with M5 bolt terminals.



12 V	92 W	330 A	6.30 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.

M5 bolt terminals
Threaded M5 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
181 × 77 × 167 mm case.

SPECIFICATIONS

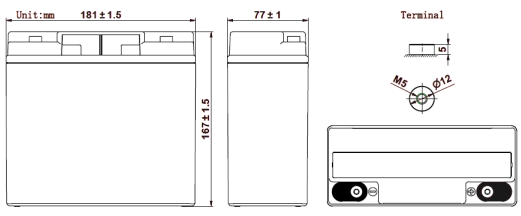
MECHANICAL

Length	**181 mm ±1.5**
Width	**77 mm ±1.0**
Container height	**167 mm ±1.5**
Overall height	**167 mm ±1.5**
Approx. weight	**6.30 kg ±5%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**M5 bolt terminal**

ELECTRICAL

Nominal voltage	**12 V**
Chemistry	**AGM VRLA (sealed)**
Nominal capacity	**92 W/cell (15 min to 1.67 V/cell, 25°C) · 22 Ah (C20) · 14.4 Ah (C1)**
Float voltage @ 25°C	**13.5 – 13.8 V**
Equalizing voltage @ 25°C	**14.4 – 15.0 V**
Max charge current	**6.60 A**
Max discharge current	**330.00 A (5 s)**
Internal resistance (charged)	**≈ 9.5 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-HR12-92 — 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	1.5H
1.60 V	94.5	72.4	65.4	49.2	39.0	26.9	15.3	11.6
1.67 V	91.5	70.3	62.6	47.6	38.0	26.6	15.2	11.3
1.70 V	89.8	68.2	60.7	46.0	36.9	26.3	14.7	11.0
1.75 V	86.2	65.0	58.2	44.4	35.2	25.5	14.4	10.8
1.80 V	82.5	61.9	55.0	42.6	33.8	24.4	14.0	10.6

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	1.5H
1.60 V	173	135	124	94.9	76.4	52.6	30.3	23.1
1.67 V	168	132	119	92.0	74.5	52.1	30.2	22.5
1.70 V	166	128	116	89.3	72.5	51.6	29.3	21.9
1.75 V	161	123	112	86.6	69.3	50.1	28.7	21.6
1.80 V	155	119	107	83.4	66.4	48.0	28.0	21.2

EFFECT OF TEMPERATURE ON CAPACITY (20 HR)

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

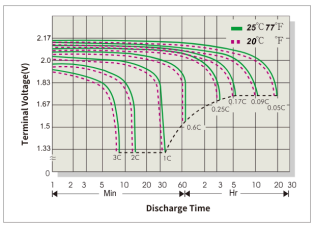
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

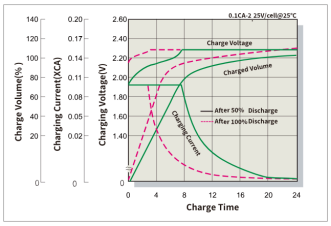
Discharge Characteristics

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



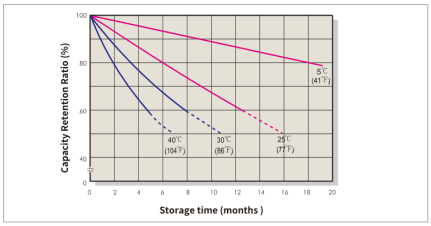
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



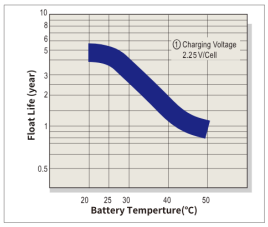
Capacity Retention (Self-Discharge)

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.