ATB-AGM-HR12-420

High-rate AGM.
Power for UPS bursts.

A 12 V 118 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	420 W	1180 A	32 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
332 × 175 × 220 mm case.

SPECIFICATIONS

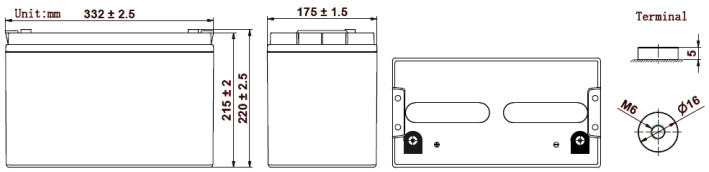
MECHANICAL

Length	**332 mm ±2.5**
Width	**175 mm ±1.5**
Container height	**215 mm ±2.5**
Overall height	**220 mm ±2.5**
Approx. weight	**32 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	**420 W/cell (15 min to 1.67 V/cell, 25°C) · 118 Ah (C20) · 72.8 Ah (C1)**
Float voltage @ 25°C	**13.5 – 13.8 V**
Equalizing voltage @ 25°C	**14.4 – 15.0 V**
Max charge current	**35.40 A**
Max discharge current	**1180.00 A (5 s)**
Internal resistance (charged)	**≈ 4.0 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-HR12-420 — 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	342	300	277	232	189	139	80.7	57.9
1.67 V	310	275	256	217	178	132	76.9	55.5
1.70 V	297	264	247	210	173	129	75.4	54.5
1.75 V	274	246	232	199	164	123	72.8	52.7
1.80 V	251	228	216	188	156	118	70.2	51.0

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	628	558	521	443	363	271	152	110
1.67 V	585	523	492	420	347	260	146	106
1.70 V	566	508	478	410	339	254	143	104
1.75 V	531	480	454	392	326	246	140	102
1.80 V	494	450	429	375	314	237	135	99

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

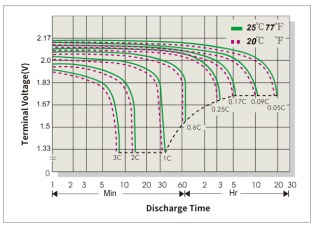
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

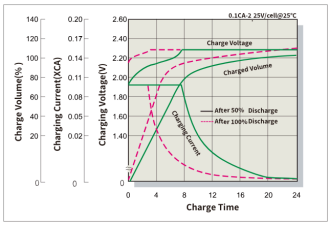
Discharge Characteristics

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



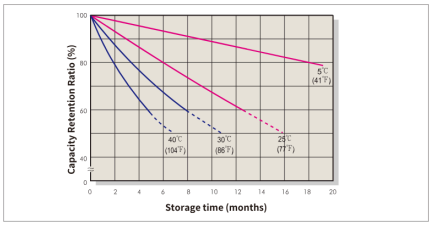
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



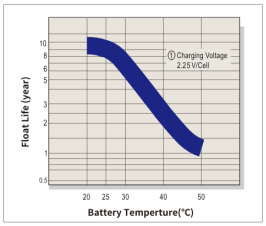
Capacity Retention (Self-Discharge)

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.