ATB-AGM-FT12-180

Front-terminal AGM.
Made for telecom racks.

A 12 V 193 Ah front-terminal AGM VRLA battery for telecom and UPS racks, with high energy density and a robust grid design. Sealed, maintenance-free and non-spillable, with M8 bolt terminals.



12 V	193 Ah	1440 A	55.5 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.

Front-access design
Both terminals on the front face for installation and inspection in racks.

Standard footprint
561 × 120 × 316 mm case.

SPECIFICATIONS

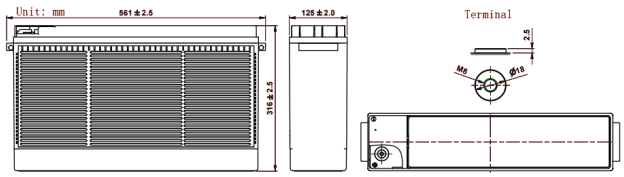
MECHANICAL

Length	**561 mm ±2.5**
Width	**120 mm ±2.0**
Container height	**316 mm ±2.5**
Overall height	**316 mm ±2.5**
Approx. weight	**55.5 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)	**193 Ah**
Capacity, 10 hr (C10)	**180 Ah**
Capacity, 5 hr (C5)	**164.5 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	**54 A**
Max discharge current	**1440 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-FT12-180 — technical data

CONSTANT CURRENT DISCHARGE @ 25°C · UNIT: A

F.V (V/cell) / Time	30 min	45 min	1 h	3 h	5 h	8 h	10 h	20 h
1.60 V	186	134	113	49.1	35.3	22.5	18.7	10.1
1.67 V	183	132	111	48.7	34.7	22.1	18.5	9.97
1.70 V	180	130	109	48.2	34.0	21.8	18.4	9.86
1.75 V	177	128	107	47.3	33.4	21.4	18.2	9.77
1.80 V	173	123	102	46.4	32.9	21.4	18.0	9.67
1.85 V	159	116	98.5	42.8	31.4	20.3	16.8	9.31

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

F.V (V/cell) / Time	30 min	45 min	1 h	3 h	5 h	8 h	10 h	20 h
1.60 V	340	249	212	93.9	68.2	44.1	36.4	19.9
1.67 V	339	248	210	93.6	67.4	43.6	36.0	19.7
1.70 V	336	246	208	93.1	66.3	43.0	35.6	19.5
1.75 V	332	242	205	91.7	65.5	42.5	35.3	19.3
1.80 V	328	235	196	90.3	64.6	42.3	35.1	19.2
1.85 V	304	224	191	83.5	61.6	40.3	33.5	18.6

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

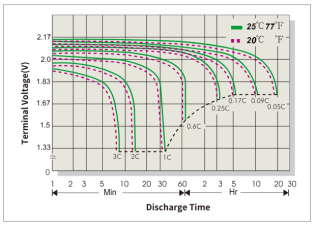
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

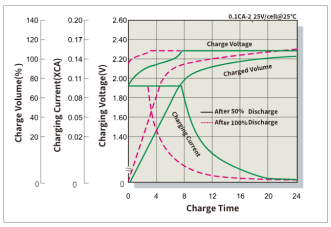
Discharge Characteristics

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



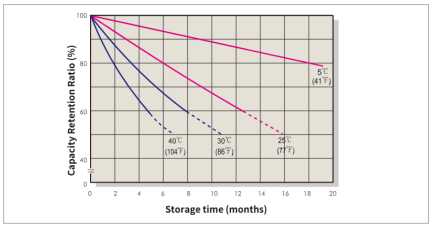
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



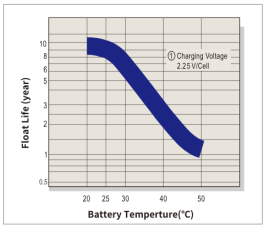
Capacity Retention (Self-Discharge)

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.