ATB-AGM-DC8-180

Deep-cycle AGM.
Built for repeated cycling.

A 8 V 180 Ah deep-cycle AGM VRLA battery engineered for repeated discharge to 50% DoD or deeper. A rugged thick-plate grid design and high active-material density give high cycle life in motive power, solar and renewable-energy storage and marine use. Sealed, maintenance-free and non-spillable, with M8 bolt terminals.



8 V	180 Ah	1440 A	34 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.

Deep-cycle design
Thick plates and high active-material density for repeated deep discharge.

Standard footprint
260 × 182 × 272 mm case.

SPECIFICATIONS

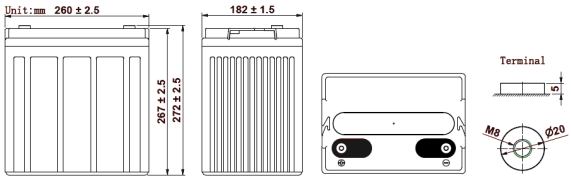
MECHANICAL

Length	**260 mm ±2.5**
Width	**182 mm ±1.5**
Container height	**267 mm ±2.5**
Overall height	**272 mm ±2.5**
Approx. weight	**34 kg ±3%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**M8 bolt terminal**

ELECTRICAL

Nominal voltage	**8 V**
Chemistry	**AGM VRLA (sealed)**
Capacity, 20 hr (C20)	**180 Ah**
Capacity, 10 hr (C10)	**168 Ah**
Capacity, 5 hr (C5)	**153 Ah**
Rating basis	**to 1.75 V/cell @ 25°C**
Float voltage @ 25°C	**9.00 – 9.20 V**
Equalizing voltage @ 25°C	**9.60 – 10.00 V**
Max charge current	**54 A**
Max discharge current	**1440 A (5 s)**
Internal resistance (charged)	**≈ 2.5 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-DC8-180 — 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	177	131	110	47.3	31.9	21.3	17.4	9.28
1.67 V	172	128	107	46.5	31.4	21.0	17.1	9.15
1.70 V	169	127	106	46.0	31.1	20.8	17.0	9.10
1.75 V	165	124	104	45.5	30.6	20.6	16.8	9.00
1.80 V	161	122	103	44.7	30.3	20.3	16.6	8.92
1.85 V	157	119	101	44.2	29.8	20.1	16.4	8.82

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	334	249	210	92.3	62.5	42.2	34.5	18.6
1.67 V	327	244	206	90.8	61.5	41.4	33.9	18.3
1.70 V	321	242	204	90.0	60.9	41.1	33.7	18.2
1.75 V	316	239	202	89.0	60.4	40.6	33.2	18.0
1.80 V	311	235	199	87.9	59.7	40.4	32.9	17.8
1.85 V	303	232	196	86.7	58.9	39.9	32.7	17.6

EFFECT OF TEMPERATURE ON CAPACITY (20 HR)

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

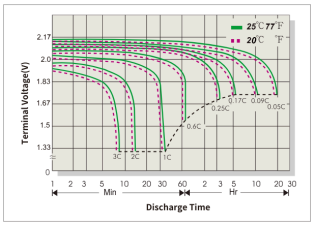
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

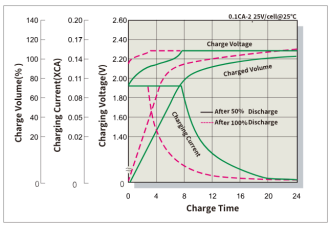
Discharge Characteristics

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



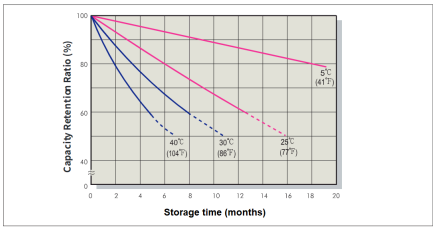
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



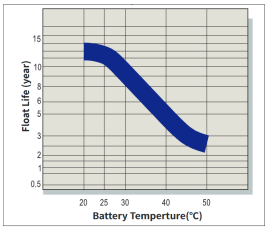
Capacity Retention (Self-Discharge)

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.