ATB-AGM-DC6-220

Deep-cycle AGM.
Built for repeated cycling.

A 6 V 220 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.



6 V	220 Ah	1320 A	30 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
307 × 169 × 227 mm case.

SPECIFICATIONS

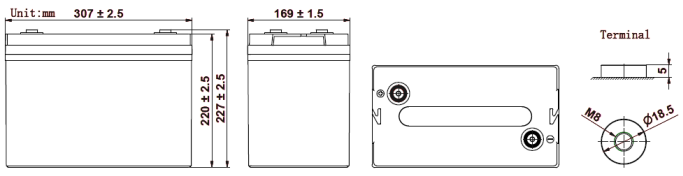
MECHANICAL

Length	**307 mm ±2.5**
Width	**169 mm ±1.5**
Container height	**220 mm ±2.5**
Overall height	**227 mm ±2.5**
Approx. weight	**30 kg ±3%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**M8 bolt terminal**

ELECTRICAL

Nominal voltage	**6 V**
Chemistry	**AGM VRLA (sealed)**
Capacity, 20 hr (C20)	**220 Ah**
Capacity, 10 hr (C10)	**205 Ah**
Capacity, 5 hr (C5)	**187 Ah**
Rating basis	**to 1.75 V/cell @ 25°C**
Float voltage @ 25°C	**6.75 – 6.90 V**
Equalizing voltage @ 25°C	**7.20 – 7.50 V**
Max charge current	**66 A**
Max discharge current	**1320 A (5 s)**
Internal resistance (charged)	**≈ 1.5 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-DC6-220 — 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	216	161	134	57.8	39.0	26.1	21.2	11.3
1.67 V	210	157	131	56.9	38.3	25.6	20.9	11.2
1.70 V	206	155	130	56.3	38.0	25.4	20.7	11.1
1.75 V	202	152	128	55.6	37.4	25.1	20.5	11.0
1.80 V	197	149	125	54.7	37.1	24.8	20.2	10.9
1.85 V	192	146	123	54.1	36.5	24.5	20.0	10.8

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	409	305	257	113	76.4	51.5	42.1	22.7
1.67 V	399	299	252	111	75.1	50.6	41.5	22.4
1.70 V	393	295	250	110	74.5	50.3	41.2	22.2
1.75 V	387	292	246	109	73.9	49.7	40.5	22.0
1.80 V	380	288	243	107	72.9	49.3	40.2	21.8
1.85 V	371	283	239	106	72.0	48.7	39.9	21.6

EFFECT OF TEMPERATURE ON CAPACITY (20 HR)

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

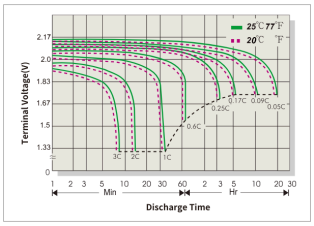
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

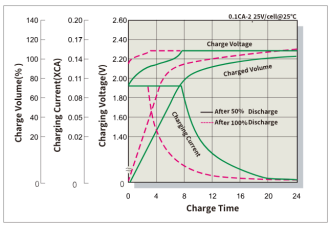
Discharge Characteristics

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



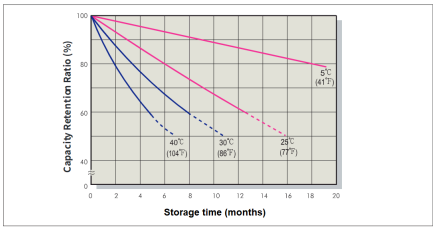
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



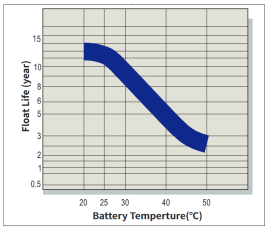
Capacity Retention (Self-Discharge)

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.