ATB-AGM-DC6-400

Deep-cycle AGM.
Built for repeated cycling.

A 6 V 400 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 DT terminals.



6 V	400 Ah	2400 A	56 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.

DT terminals
DT terminals for secure bolted cable connections.

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

Standard footprint
296 × 178 × 426 mm case.

SPECIFICATIONS

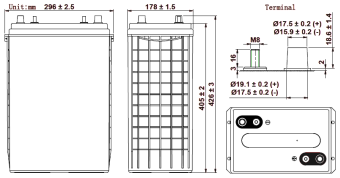
MECHANICAL

Length	**296 mm ±2**
Width	**178 mm ±1.5**
Container height	**405 mm ±2**
Overall height	**426 mm ±3**
Approx. weight	**56 kg ±3%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**DT terminal**

ELECTRICAL

Nominal voltage	**6 V**
Chemistry	**AGM VRLA (sealed)**
Capacity, 20 hr (C20)	**400 Ah**
Capacity, 10 hr (C10)	**373 Ah**
Capacity, 5 hr (C5)	**340 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	**120 A**
Max discharge current	**2400 A (5 s)**
Internal resistance (charged)	**≈ 1.8 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-DC6-400 — 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	393	292	244	105	70.9	47.4	38.6	20.6
1.67 V	381	285	238	103	69.7	46.6	38.0	20.3
1.70 V	375	281	236	102	69.1	46.2	37.7	20.2
1.75 V	367	276	232	101	68.0	45.7	37.3	20.0
1.80 V	359	270	228	99.4	67.4	45.1	36.8	19.8
1.85 V	350	265	223	98.3	66.3	44.6	36.4	19.6

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	743	554	467	205	139	93.7	76.6	41.3
1.67 V	726	543	458	202	137	92.0	75.4	40.7
1.70 V	714	537	454	200	135	91.4	74.9	40.4
1.75 V	703	531	448	198	134	90.3	73.7	40.0
1.80 V	691	523	442	195	133	89.7	73.1	39.6
1.85 V	674	515	435	193	131	88.6	72.6	39.2

EFFECT OF TEMPERATURE ON CAPACITY (20 HR)

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

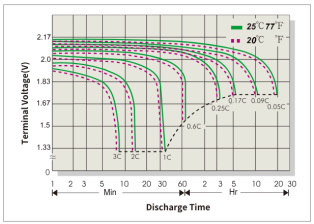
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

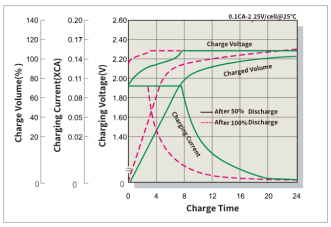
Discharge Characteristics

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



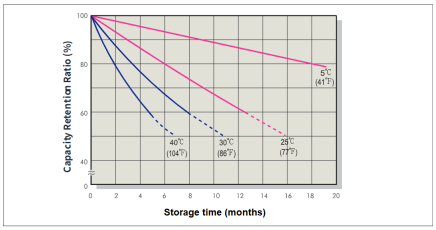
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



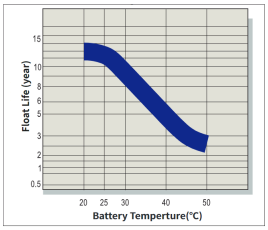
Capacity Retention (Self-Discharge)

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.