ATB-GEL-DCG12-200T

Deep-cycle gel. Tough on heat and cycling.

A 12 V 192 Ah gel VRLA battery for solar, deep-cycle, mobility and marine use. The gelled electrolyte gives strong deep-cycle life and tolerance to heat and irregular charging. Sealed, maintenance-free and non-spillable, with LT-M8 terminals.



12 V	192 Ah	1080 A	63.5 kg
NOMINAL VOLTAGE	C20 CAPACITY @ 25°C	MAX DISCHARGE (5 S)	APPROX. WEIGHT

Sealed gel VRLA

Valve-regulated oxygen-recombination design. Maintenance-free and non-spillable: no electrolyte topping and no acid handling.

LT-M8 terminals

LT-M8 terminals for secure bolted cable connections.

Gelled electrolyte

Fumed-silica gel immobilises the electrolyte for deep-cycle life and heat tolerance.

Standard footprint

382 × 180 × 375.5 mm case.

SPECIFICATIONS

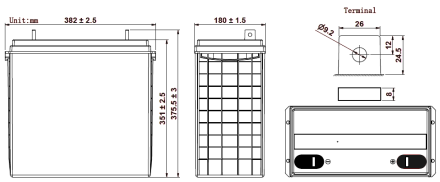
MECHANICAL

Length	**382 mm ±2.5**
Width	**180 mm ±1.5**
Container height	**351 mm ±2.5**
Overall height	**375.5 mm ±2.5**
Approx. weight	**63.5 kg ±3%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**LT-M8 terminal**

ELECTRICAL

Nominal voltage	**12 V**
Chemistry	**GEL VRLA (sealed)**
Capacity, 20 hr (C20)	**192 Ah**
Capacity, 10 hr (C10)	**180 Ah**
Capacity, 5 hr (C5)	**155 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	**1080 A (5 s)**
Internal resistance (charged)	**≈ 6.0 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-GEL-DCG12-200T — 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	181	136	114	50.0	33.6	22.8	19.0	10.2
1.67 V	170	130	110	49.6	33.4	22.6	18.9	10.2
1.70 V	166	127	108	49.0	32.8	22.4	18.7	10.1
1.75 V	158	123	105	47.4	31.8	22.0	18.5	9.80
1.80 V	151	118	93.5	45.6	31.0	21.8	18.0	9.59
1.85 V	130	104	84.5	41.6	29.4	20.8	17.6	9.11

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	324	248	214	95.3	65.1	44.4	37.2	19.6
1.67 V	310	239	209	94.9	64.7	44.2	37.0	19.4
1.70 V	303	236	205	93.7	63.9	44.0	36.8	19.2
1.75 V	293	229	201	92.1	62.3	43.4	36.6	18.8
1.80 V	283	222	181	88.9	60.5	42.8	35.6	18.2
1.85 V	246	197	164	81.3	57.7	41.2	35.0	17.5

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

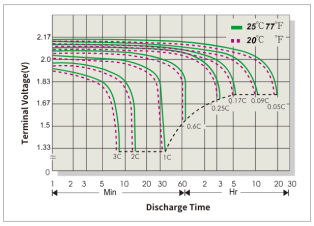
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

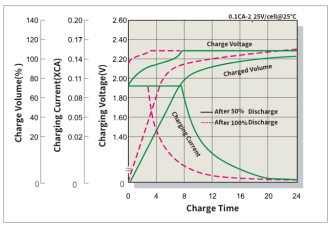
Discharge Characteristics

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



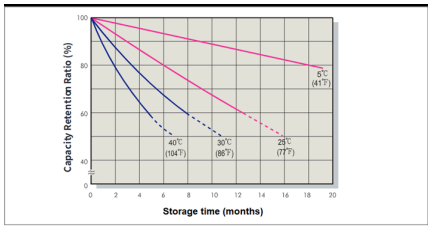
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



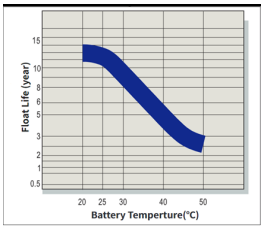
Capacity Retention (Self-Discharge)

CAPACITY RETENTION RATIO vs STORAGE TIME



Float Service Life

FLOAT LIFE vs BATTERY TEMPERATURE · 2.25 V/CELL



STANDARDS & QUALITY

Gel 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 gel VRLA cell platform at the stated reference conditions. This product is engineered, specified and branded by ATB Power. E&OE. © ATB Power.