ATB-GEL-DCG12-200

Deep-cycle gel. Tough on heat and cycling.

A 12 V 214 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 M8 bolt terminals.



12 V	214 Ah	1200 A	64 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.

M8 bolt terminals

Threaded M8 terminals for secure bolted cable connections in UPS, telecom and storage systems.

Gelled electrolyte

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

Standard footprint

522 × 240 × 223 mm case.

SPECIFICATIONS

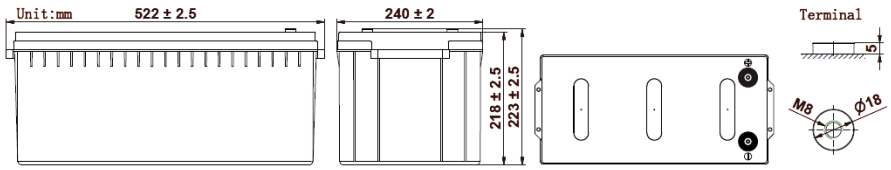
MECHANICAL

Length	**522 mm ±2.5**
Width	**240 mm ±1.5**
Container height	**218 mm ±2.5**
Overall height	**223 mm ±2.5**
Approx. weight	**64 kg ±3%**
Container material	**ABS, UL94-HB (UL94-V0 optional)**
Terminal type	**M8 bolt terminal**

ELECTRICAL

Nominal voltage	**12 V**
Chemistry	**GEL VRLA (sealed)**
Capacity, 20 hr (C20)	**214 Ah**
Capacity, 10 hr (C10)	**200 Ah**
Capacity, 5 hr (C5)	**172 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	**60 A**
Max discharge current	**1200 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-GEL-DCG12-200 — 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	201	151	127	55.5	37.3	25.3	21.1	11.4
1.67 V	189	144	123	55.1	37.1	25.1	21.0	11.3
1.70 V	184	141	120	54.4	36.4	24.9	20.8	11.2
1.75 V	176	136	117	52.6	35.3	24.4	20.6	10.9
1.80 V	168	131	104	50.6	34.4	24.2	20.0	10.7
1.85 V	145	116	93.9	46.2	32.6	23.1	19.6	10.1

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	360	276	237	106	72.4	49.3	41.3	21.7
1.67 V	345	266	232	105	71.9	49.1	41.1	21.5
1.70 V	337	262	228	104	71.0	48.8	40.8	21.3
1.75 V	326	254	223	102	69.3	48.2	40.6	20.9
1.80 V	314	247	201	98.8	67.3	47.5	39.5	20.2
1.85 V	274	219	182	90.4	64.2	45.7	38.9	19.4

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

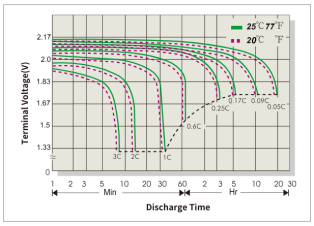
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

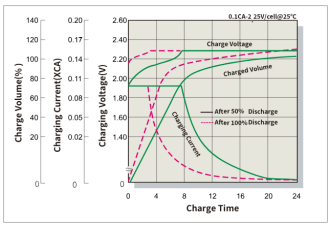
Discharge Characteristics

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



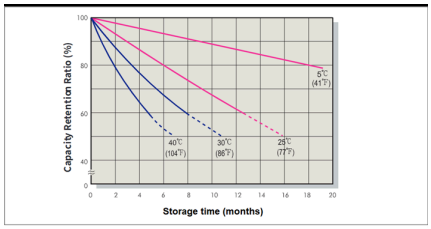
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



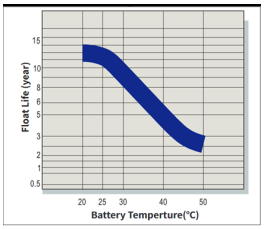
Capacity Retention (Self-Discharge)

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.