ATB-GEL-DCG12-150

Deep-cycle gel. Tough on heat and cycling.

A 12 V 160 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	160 Ah	1200 A	52 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

532 × 207 × 220 mm case.

SPECIFICATIONS

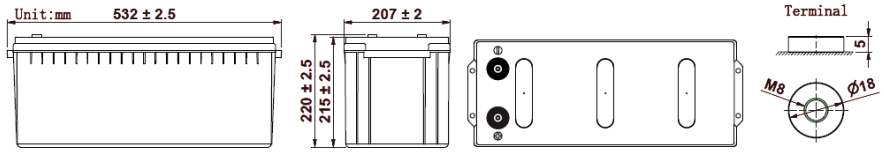
MECHANICAL

Length	**532 mm ±2.5**
Width	**207 mm ±2.0**
Container height	**215 mm ±2.5**
Overall height	**220 mm ±2.5**
Approx. weight	**52 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)	**160 Ah**
Capacity, 10 hr (C10)	**150 Ah**
Capacity, 5 hr (C5)	**129 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	**45 A**
Max discharge current	**1200 A (5 s)**
Internal resistance (charged)	**≈ 5.5 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-GEL-DCG12-150 — 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	151	113	94.9	41.6	28.0	19.0	15.8	8.52
1.67 V	142	108	91.9	41.3	27.8	18.8	15.7	8.47
1.70 V	138	106	90.2	40.8	27.3	18.6	15.6	8.41
1.75 V	132	102	87.4	39.5	26.5	18.3	15.4	8.17
1.80 V	126	98.6	77.9	38.0	25.8	18.1	15.0	7.99
1.85 V	109	86.7	70.4	34.6	24.5	17.3	14.7	7.59

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	270	207	178	79.4	54.3	37.0	31.0	16.3
1.67 V	258	199	174	79.1	53.9	36.8	30.8	16.1
1.70 V	253	196	171	78.1	53.3	36.6	30.6	16.0
1.75 V	244	191	167	76.8	51.9	36.1	30.5	15.7
1.80 V	236	185	151	74.1	50.4	35.6	29.6	15.2
1.85 V	205	165	137	67.8	48.1	34.3	29.1	14.5

EFFECT OF TEMPERATURE ON CAPACITY (10 HR)

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

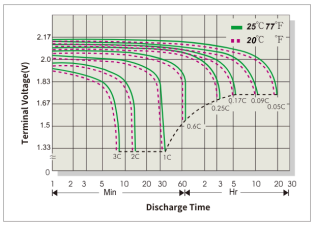
SELF-DISCHARGE CHARACTERISTICS

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

CHARACTERISTIC CURVES

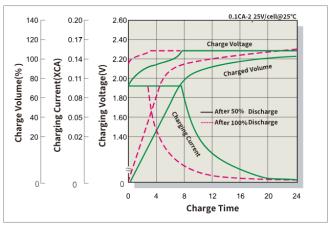
Discharge Characteristics

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



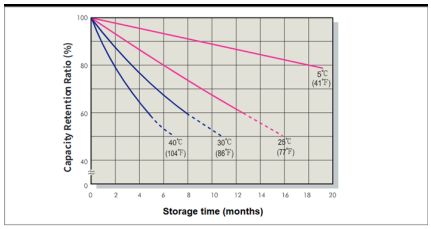
Charging Characteristics

0.1 CA · 2.25 V/CELL @ 25°C



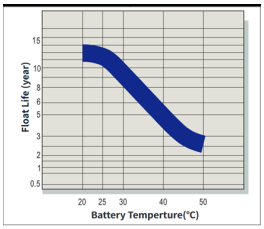
Capacity Retention (Self-Discharge)

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.