FBinternational

Model : DC250-6 (Deep Cycle - AGM)

Fullriver AGM deep cycle batteries designed for applications that typically discharge 60 to 70% or more of the battery capacity. The DC Series batteries typically feature thick plates with high density active material. The thick battery plates allow for reserve energy to be stored deep within the battery plates and released during slow discharging such as trolling or solar applications. The high density material remains within the batteries' plate/grid structure longer, resisting the normal degradation found in cycling conditions. The batteries are typically used for great extent discharge and recharged. The DC Series uses a different chemistry for the plates' active paste material and a slightly stronger acid. This chemistry allows for a much longer life in deep cycle applications with only a slightly reduction in maximum power output.

Specifications

Nominal voltage = 6 V
Rated capacity (20hrs/1.80V/25°C) = 250 Ah
Total height = 272 mm
Height = 266 mm
Length = 262 mm
Width = 181 mm
Approx. Weight = 32kg±500g
Internal resistance = ≤ 2.5mΩ (fully charged@25°C @ steady status)
Standard terminal = M8
Max. discharge current in 5 sec. = 1250A

Capacity@77F(25°C)

20hr rate(12.5A) = 250Ah
10hr rate(22.5A) = 225Ah
5hr rate(40.5A) = 202.5Ah ##

Capacity affected by temperature

104°F (40°C)@ 20hrs rate = 102%
77°F (25°C)@ 20hrs rate = 100%
32°F (0°C)@ 20hrs rate = 85%
5°F (-15°C)@20hrs rate = 65%

Capacity remains after self-discharge

3 months = 91%
6 months = 82%
12months = 64%

Cranking performance####

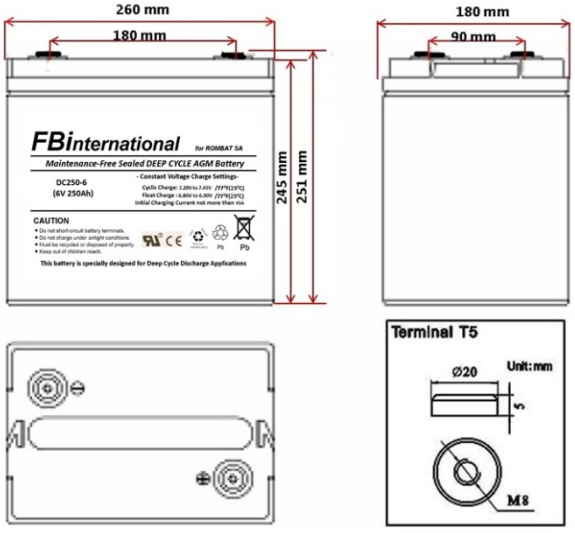
Cranking Ampere = 1440A
Cold cranking Ampere = 1230A

Reserve capacity to 10.5V at 80°F (27°C)###

@25A = 510 mins
@75A = 130 mins

Constant voltage charging@77°F (25°C)

Cycle – initial charging current 45A or smaller
7.20V to 7.45V
Float -- 6.80V to 6.90V



Application Examples

Wheelchair; Robots ; Lawn mowers;
Golf Trolley ; Pumps ; Magnetic lifts; Solar ;
Electric tools ; automatic guide; Photovoltaic

Remarks

RC Reserve Capacity) - the number of minutes a battery can be discharged at 25A or 75 A.

####CA (Cranking Ampere) - the discharge load in amperes which a new fully charged battery can maintained for 30 second at 32°F at a voltage above 1.2V/cell.

####CCA (Cold Cranking Ampere) – the discharge load in ampere which a new fully charged battery can maintained for 30 seconds at 0°F (-18°C) at a voltage above 1.2V/cell

5 hour rate is based on IEC (International Electro-technical Commission) temperature standard of 30°C (86°F)

M Terminal
M5、 M6 or M8

Constant Current Discharge Mean Data (ampere per cell) at 77°F (25°C)

Volt/Cell	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	378	321	204	151	138	88.1	61.9	42.1	27.8	24.8	13.8
1.65V	371	315	201	148	136	86.5	60.8	41.3	27.3	24.3	13.5
1.70V	364	310	197	145	133	84.9	59.6	40.5	26.8	23.9	13.3
1.75V	357	304	193	143	131	83.3	58.5	39.8	26.3	23.4	13.0
1.80V	343	292	186	137	126	80.1	56.3	38.3	25.3	22.5	12.5

Constant Power Discharge Mean Data (watt per cell) at 77°F (25°C)

Volt/Cell	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	727	619	394	291	267	169	119	81.0	53.5	47.6	26.5
1.65V	714	608	387	285	263	166	116	79.5	52.5	46.8	26.0
1.70V	701	596	380	280	257	163	114	78.0	51.5	45.9	25.5
1.75V	688	585	372	275	252	160	112	76.6	50.6	45.0	25.0
1.80V	661	563	358	264	243	154	108	73.6	48.6	43.3	24.1

FULLRIVER DC BATTERIES

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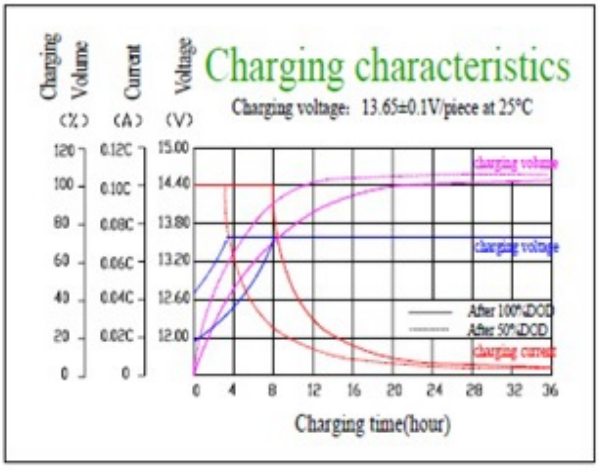
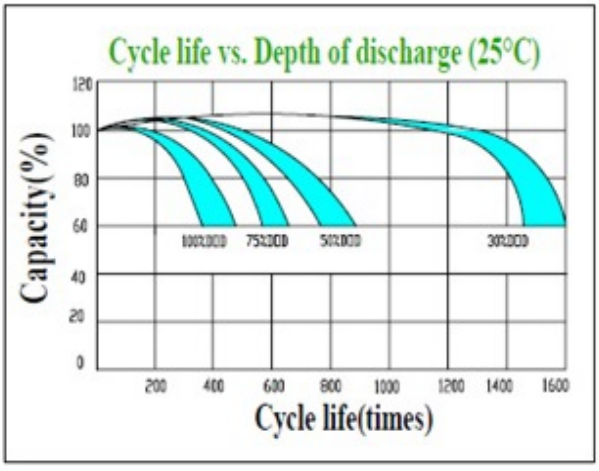
Deep Cycle for ROMBAT SA

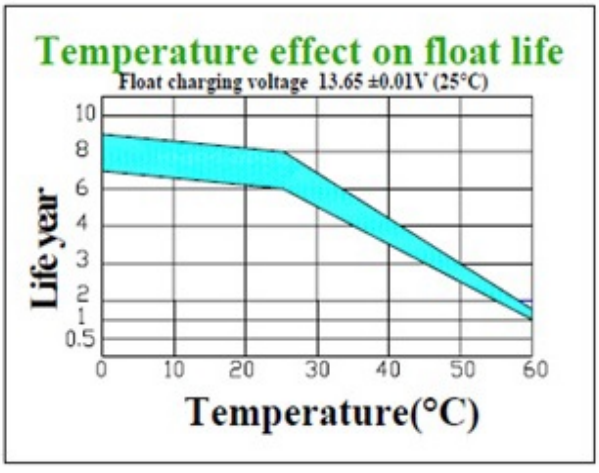
FBinternational

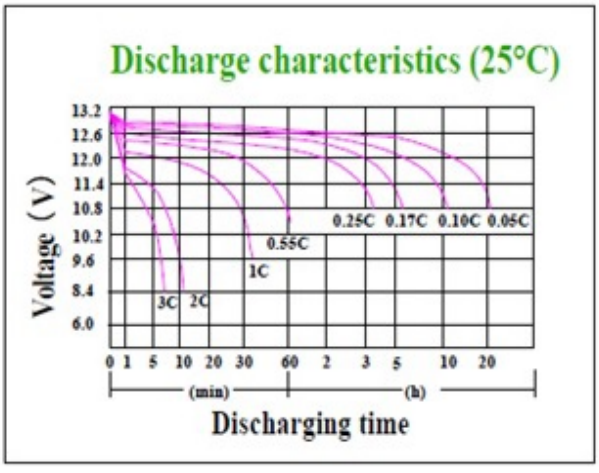
Model : DC250-6 (Deep Cycle - AGM)

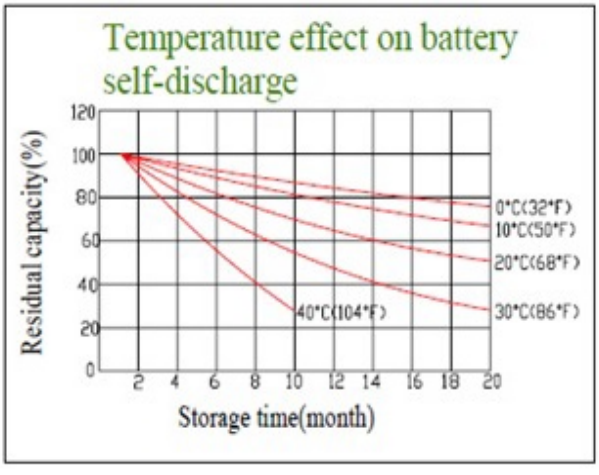
Performance Characteristics

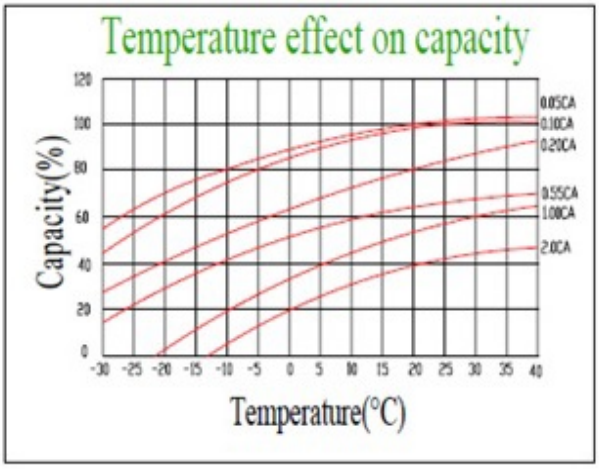












Battery Construction

Component	POS Plate	NEG Plate	Container and Lid Cover	Safety Valve	Terminal Options	Separator	Electrolyte
Raw material	Lead Dioxide	Lead	ABS or UL94 V0 ,Flame Retardant ABS(Option)	Si-Rubber	Inserted M8	Absorbed Glass Mat	Sulfuric Acid

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