

Cod. 00412552

VRLA BATTERY AGM TECHNOLOGY

Revision 5.0

Specifications

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(2.80A to 10.50V)	56.00Ah
10 hour rate	(5.23A to 10.50V)	52.30Ah
5 hour rate	(0.35A to 10.20V)	46.75Ah
1 C	(56.00A to 1.60V)	31.17Ah

Weight Approx. 17.3kg (38.2 Lbs.)

Internal Resistance (at 1KHz)

Approx. 6 mΩ

Maximum Discharge Current for

5 seconds: 660A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.40 to 15.00V

Coefficient -5.0mv/°C/cell

Maximum Charging Current: 14A

Standby use:

Float Charging Voltage 13.50 to 13.80V

Coefficient -3.0mv/°C/cell

Operating Temperature Range

Charge -15°C (5°F) to 40 °C (104°F)

Discharge -15°C (5°F) to 50 °C (122°F)

Storage -15°C (5°F) to 40 °C (104°F)

Charge Retention (shelf life) at 20°C (68°F)

1 month 92%

3 month 90%

6 month 80%

Case Material ABS UL94HB

(Option: ABS UL94 V-0 flame retardant)

Terminal FM6

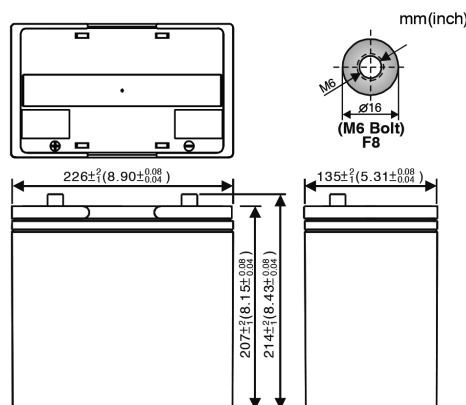
Description of torque value of hard ware for the terminals:

Reccomended torque value **M6: 5.39 N-m (55kg-cm)**

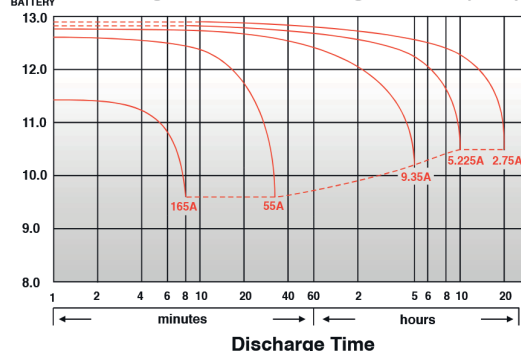
Maximum allowable torque value **M6: 8.82 N-m (90kg-cm)**

ENERGY *Cyclic*
SAFE

Dimensions mm (inch)



Discharge Time VS. Discharge Current (25°C)

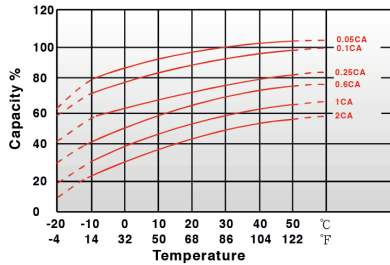


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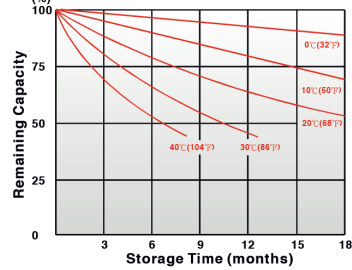
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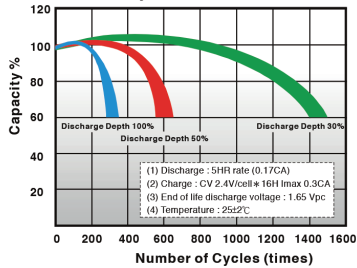
Effect of Temperature on Capacity 25°C(77°F)



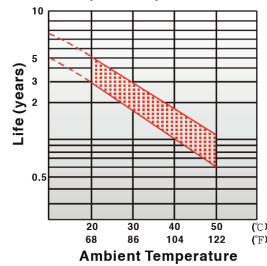
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	297	332	360	385	409	426	439
10	min	218	243	263	280	294	301	307
15	min	194	208	219	223	226	229	231
30	min	117	122	126	130	134	137	139
60	min	64.7	67.1	69.3	71.3	71.7	72.0	72.2
120	min	33.1	35.3	36.9	37.5	38.1	38.5	38.9
180	min	26.7	28.6	29.6	30.0	30.4	30.7	31.0
240	min	21.8	22.8	23.7	24.1	24.4	24.6	24.8
300	min	18.3	19.2	20.0	20.2	20.4	20.6	20.8
600	min	10.6	11.0	11.4	11.6	11.8	12.0	12.1
1200	min	5.48	5.72	5.93	6.01	6.06	6.11	6.16

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	156	180	194	207	216	223	228
10	min	116	135	145	150	156	160	162
15	min	90.2	99.8	104	109	113	115	116
30	min	57.2	62.3	64.9	66.6	68.4	69.9	70.8
60	min	29.1	32.3	34.1	34.7	35.2	35.6	36.0
120	min	16.7	18.0	19.0	19.4	19.8	20.1	20.3
180	min	12.7	13.5	13.9	14.2	14.4	14.6	14.8
240	min	10.7	11.1	11.5	11.7	11.9	12.1	12.3
300	min	8.91	9.29	9.48	9.59	9.7	9.8	9.9
600	min	5.27	5.38	5.50	5.53	5.56	5.59	5.62
1200	min	2.73	2.77	2.80	2.83	2.87	2.90	2.93

All data on the spec. sheet is an average value:

The tolerance range : X<6min (+15%~-15%), 6min≤X<10min (+12%~-12%), 10min≤X<60min (+8%~-8%), X≥60min (+5%~-5%)