

**Cod. 00412340**

**VRLA BATTERY AGM TECHNOLOGY**

Revision 1.0

**Specifications**

**Nominal Voltage (V)** 12V

**Nominal Capacity**

20 hour rate	(1.75A to 10.50V)	<b>35Ah</b>
10 hour rate	(3.33A to 10.50V)	<b>33.3Ah</b>
5 hour rate	(5.82A to 10.50V)	<b>29.1Ah</b>
1 C	(35A to 10.50V)	<b>17.5Ah</b>

**Weight** Approx. 10.5kg (23.1 Lbs.)

**Internal Resistance (at 1KHz)** Approx. 11 mΩ

**Maximum Discharge Current for**

**5 seconds:** 510A

**Charging Methods at 25°C (77°F)**

**Cycle use:**

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/°C/cell

Maximum Charging Current: 10.2A

**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%

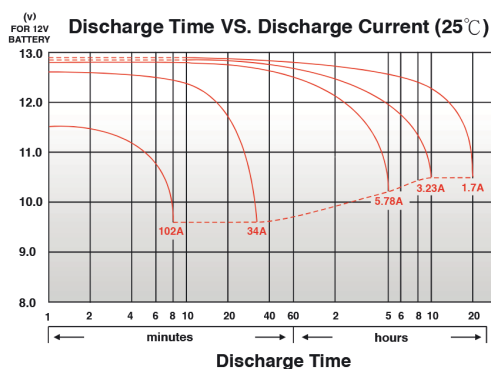
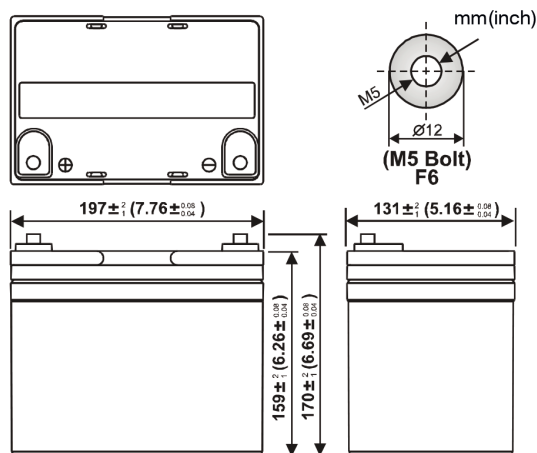
**Case Material ABS UL94HB**

(Option: ABS UL94 V-0 flame retardant)

**Terminal** FM5

**ENERGY SAFE**

**Dimensions mm (inch)**

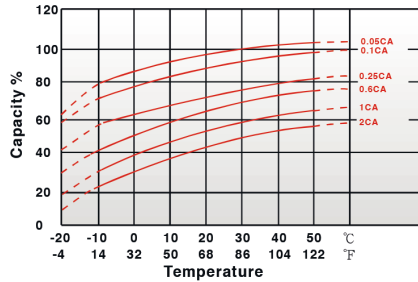


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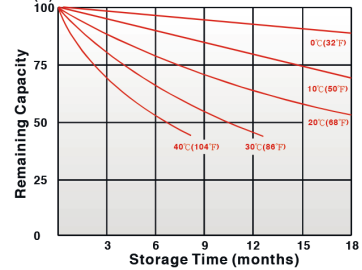
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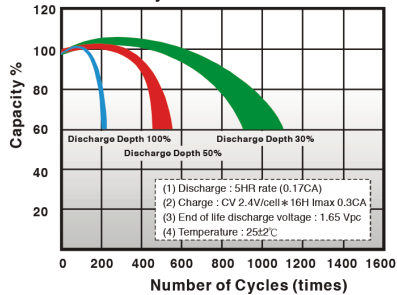
**Effect of Temperature on Capacity 25°C(77°F)**



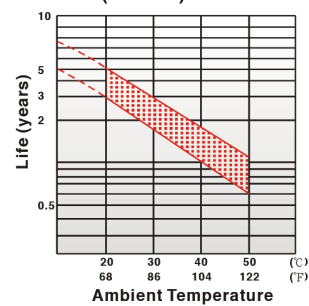
**Capacity Retention Characteristic**



**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	m in	123	165	197	217	224	231	240
10	m in	86.9	114	134	147	151	156	162
15	m in	70.3	91.1	106	116	119	123	127
30	m in	38.2	49.5	57.8	63.0	64.7	66.6	69.0
60	m in	36.2	38.5	39.9	40.9	41.2	41.6	42.0
120	m in	22.6	23.8	24.6	25.1	25.2	25.5	25.7
180	m in	15.3	16.3	16.9	17.3	17.5	17.6	17.8
240	m in	12.3	13.1	13.6	13.9	14.1	14.2	14.3
300	m in	10.5	11.2	11.6	11.9	12.0	12.1	12.2
600	m in	6.22	6.61	6.86	7.02	7.08	7.15	7.21
1200	m in	3.26	3.47	3.60	3.68	3.72	3.75	3.78

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	m in	88.7	109	123	132	135	139	143
10	m in	61.5	71.4	77.5	81.8	83.7	86.2	89.3
15	m in	51.2	58.6	63.4	66.1	66.9	67.8	69.2
30	m in	29.6	33.5	35.1	36.4	36.8	37.3	37.9
60	m in	17.7	19.0	19.9	20.6	20.8	21.1	21.4
120	m in	10.6	11.4	11.9	12.3	12.4	12.6	12.8
180	m in	7.86	8.37	8.73	8.99	9.06	9.14	9.27
240	m in	5.91	6.35	6.73	6.92	6.97	7.04	7.15
300	m in	5.38	5.66	5.82	5.95	6.00	6.06	6.14
600	m in	3.11	3.23	3.33	3.42	3.45	3.48	3.52
1200	m in	1.60	1.69	1.75	1.79	1.80	1.82	1.84

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%)