

Cod. 0041202

VRLA BATTERY AGM TECHNOLOGY

Revision 4.0

Specifications

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(0.115A to 10.50V)	2.3Ah
10 hour rate	(0.219A to 10.50V)	2.185Ah
5 hour rate	(0.39A to 10.20V)	1.955Ah
1 C	(2.3A to 9.60V)	1.303Ah
3 C	(6.9A to 9.60V)	0.92Ah

Weight Approx. 1.05kg (2.31 Lbs.)

Internal Resistance (at 1KHz) Approx. 37 mΩ

Maximum Discharge Current for

5 seconds: 46A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **14.4 to 15V**

Coefficient -5.0mv/°C/cell

Maximum Charging Current: **0.69A**

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 **98%**

3 month **94%**

6 month **85%**

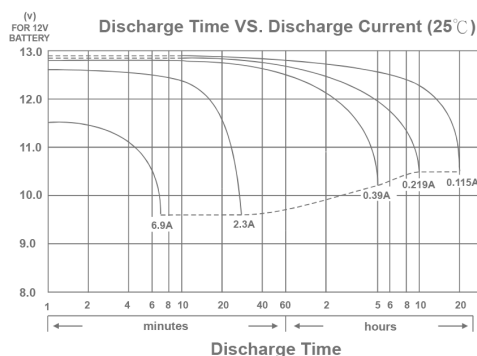
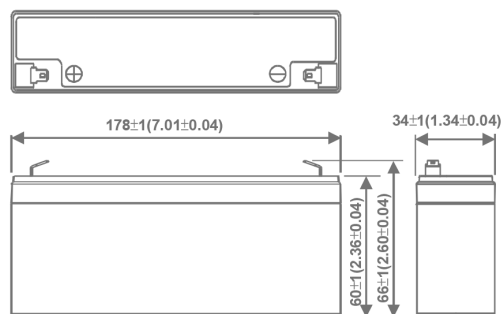
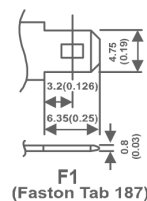
Case Material ABS UL94HB

(Option: ABS UL94 V-0 flame retardant)

Terminal F1 (Faston Tab 187 or 250)

ENERGY SAFE

Dimensions mm (inch)

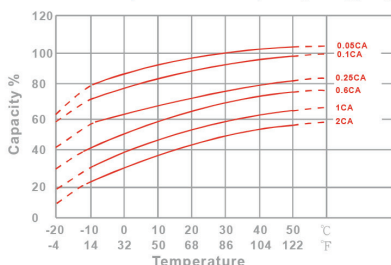


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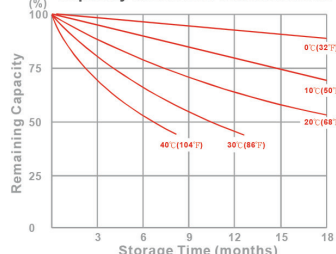
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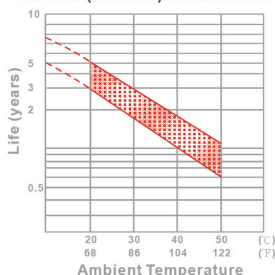
Effect of Temperature on Capacity 25°C (77°F)



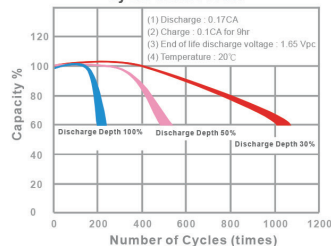
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



PERFORMANCE DATA

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

Time	End Voltage	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
5	min	101.7	104.9	107.7	110.0	112.9	116.5
10	min	65.3	67.3	69.1	70.6	72.4	74.7
15	min	47.7	48.8	50.2	51.6	53.1	54.0
30	min	25.3	26.0	26.7	27.4	28.2	28.7
60	min	14.7	16.0	16.6	17.1	17.8	18.4
120	min	7.75	8.44	8.8	9.0	9.4	9.7
180	min	6.18	6.73	6.99	7.20	7.47	7.71
240	min	4.96	5.41	5.61	5.78	6.00	6.20
300	min	4.22	4.59	4.77	4.92	5.10	5.27
600	min	2.49	2.71	2.82	2.90	3.01	3.11
1200	min	1.31	1.42	1.48	1.52	1.58	1.63

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

Time	End Voltage	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
5	min	9.08	9.36	9.62	9.82	10.08	10.40
10	min	5.67	5.85	6.01	6.14	6.30	6.50
15	min	4.06	4.16	4.27	4.39	4.52	4.60
30	min	2.13	2.18	2.24	2.31	2.37	2.41
60	min	1.23	1.34	1.39	1.43	1.49	1.54
120	min	0.65	0.70	0.73	0.75	0.78	0.81
180	min	0.51	0.56	0.58	0.60	0.62	0.64
240	min	0.41	0.45	0.46	0.48	0.50	0.51
300	min	0.35	0.38	0.39	0.41	0.42	0.44
600	min	0.205	0.223	0.232	0.239	0.248	0.256
1200	min	0.108	0.117	0.122	0.125	0.130	0.134

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

The tolerance range : $X < 6min (+15\% \sim -15\%)$, $6min \leq X < 10min (+12\% \sim -12\%)$, $10min \leq X < 60min (+8\% \sim -8\%)$, $X \geq 60min (+5\% \sim -5\%)$