

Cod. 00412051

VRLA BATTERY AGM TECHNOLOGY

Revision 4.0

Specifications

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(0.25A to 10.50V)	5Ah
10 hour rate	(0.475A to 10.50V)	4.75Ah
5 hour rate	(0.85A to 10.20V)	4.25Ah
1 C	(5A to 9.60V)	2.833Ah
3 C	(15A to 9.60V)	2.0Ah

Weight Approx. 1.9kg (4.18 Lbs.)

Internal Resistance (at 1KHz) Approx. 19 mΩ

Maximum Discharge Current for

5 seconds: 100A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/°C/cell

Maximum Charging Current: 1.5A

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%

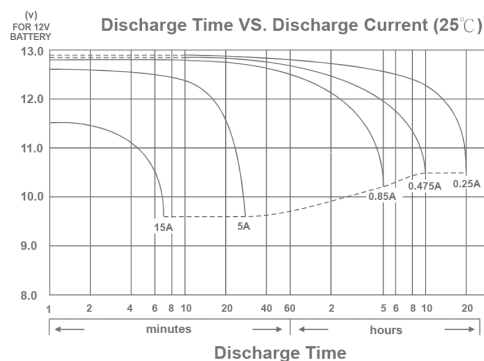
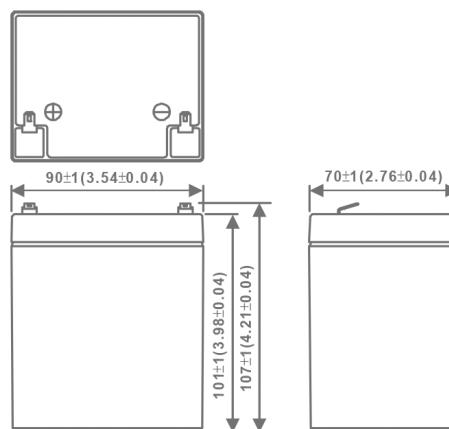
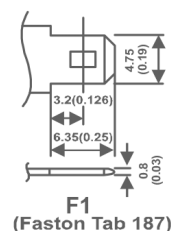
Case Material ABS UL94HB

(Option: ABS UL94 V-0 flame retardant)

Terminal F1 (Faston Tab 187 or 250)

ENERGY SAFE

Dimensions mm (inch)

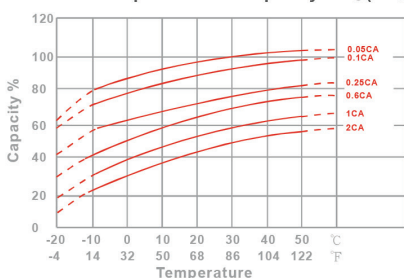


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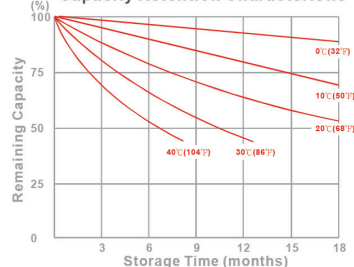
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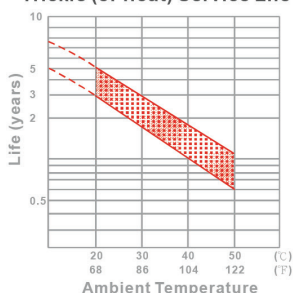
Effect of Temperature on Capacity 25°C (77°F)



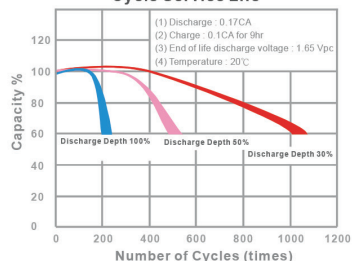
Capacity Retention Characteristic



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	280	299	306	307	309	311
10	min	180	192	196	197	198	200
15	min	133	141	144	145	146	147
30	min	70.4	74.8	76.3	76.7	77.1	77.7
60	min	35.7	38.6	40.7	41.4	42.1	42.7
120	min	18.8	20.3	21.5	21.8	22.2	22.5
180	min	15.0	16.2	17.1	17.4	17.7	18.0
240	min	12.1	13.0	13.7	14.0	14.2	14.4
300	min	10.2	11.1	11.7	11.9	12.1	12.3
600	min	6.05	6.53	6.90	7.02	7.14	7.24
1200	min	3.18	3.43	3.62	3.68	3.75	3.80

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	25.0	26.7	27.3	27.4	27.6	27.8
10	min	15.6	16.7	17.1	17.1	17.2	17.4
15	min	11.3	12.0	12.3	12.3	12.4	12.5
30	min	5.94	6.31	6.44	6.48	6.51	6.55
60	min	3.00	3.24	3.42	3.48	3.54	3.59
120	min	1.58	1.70	1.80	1.83	1.86	1.89
180	min	1.25	1.35	1.43	1.45	1.48	1.50
240	min	1.00	1.08	1.14	1.16	1.18	1.20
300	min	0.85	0.92	0.97	0.99	1.00	1.02
600	min	0.50	0.54	0.57	0.58	0.59	0.60
1200	min	0.26	0.28	0.30	0.30	0.31	0.31

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

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