

Cod. 0041212

VRLA BATTERY AGM TECHNOLOGY

Revision 4.0

Specifications

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(0.6A to 10.50V)	12Ah
10 hour rate	(0.14A to 10.50V)	11.4Ah
5 hour rate	(2.04A to 10.20V)	10.2Ah
1 C	(12A to 9.60V)	6.4Ah
3 C	(36A to 9.60V)	4.2Ah

Weight Approx. 3.74kg (8.23 Lbs.)

Internal Resistance (at 1KHz) Approx. 13 mΩ

Maximum Discharge Current for

5 seconds: 180A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/°C/cell

Maximum Charging Current: 3.6A

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%

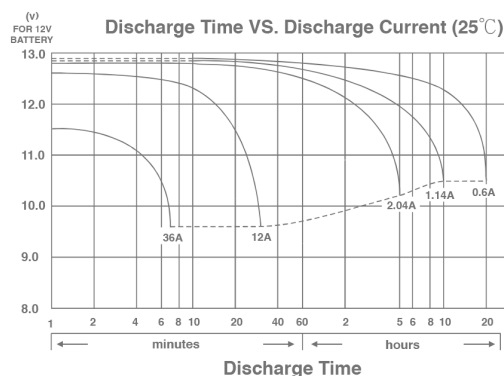
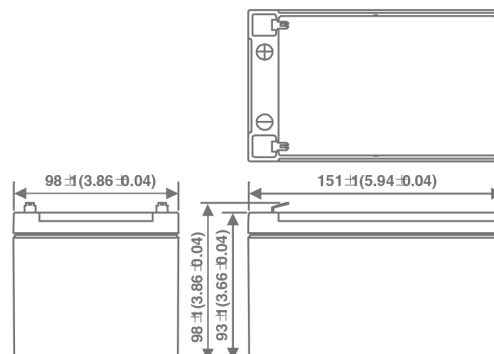
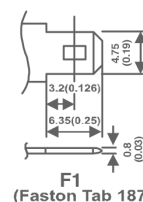
Case Material ABS UL94HB

(Option: ABS UL94 V-0 flame retardant)

Terminal F1 (Faston Tab 187 or 250)

ENERGY SAFE

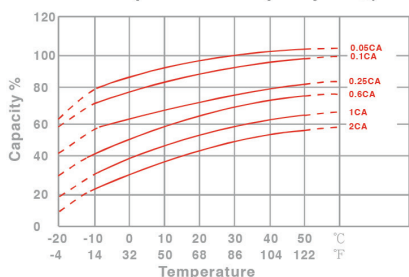
Dimensions mm (inch)



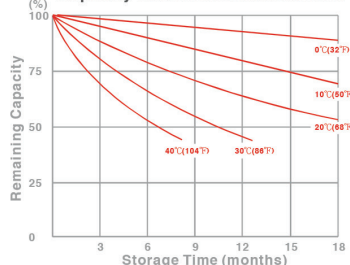
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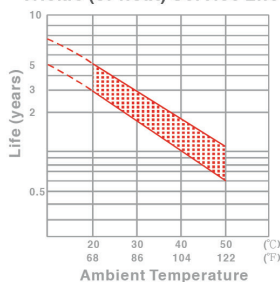
Effect of Temperature on Capacity 25°C(77°F)



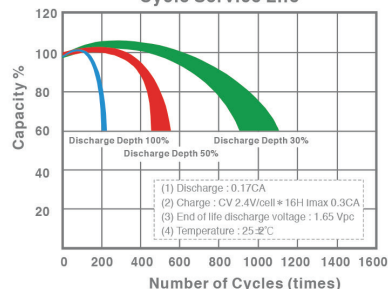
Capacity Retention Characteristic



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	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	405	451	485	520	536	552	582
10	min	288	315	329	344	349	357	366
15	min	232	246	255	264	267	272	279
30	min	133	142	148	152	154	156	158
60	min	94.7	98	100	102	103	104	105
120	min	51.8	53.5	54.3	54.9	55.1	55.4	55.9
180	min	33.9	35.2	36.3	37.2	37.6	38.1	38.5
240	min	28.7	29.3	29.8	30.4	30.7	31.2	31.6
300	min	23.7	24.5	25.1	25.8	26	26.3	26.9
600	min	14.0	14.4	14.6	14.8	14.9	15.0	15.1
1200	min	7.16	7.25	7.48	7.59	7.68	7.77	7.94

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	37.2	41.4	44.5	47.7	49.1	50.6	53.4
10	min	25.7	28.1	29.4	30.7	31.2	31.9	32.7
15	min	20.3	21.6	22.4	23.2	23.5	23.8	24.5
30	min	11.4	12.1	12.6	13.0	13.1	13.3	13.5
60	min	8.21	8.40	8.52	8.63	8.68	8.74	8.82
120	min	4.21	4.36	4.47	4.56	4.59	4.63	4.68
180	min	2.87	3.06	3.13	3.19	3.22	3.25	3.29
240	min	2.38	2.43	2.47	2.52	2.55	2.58	2.62
300	min	1.97	2.03	2.08	2.14	2.16	2.19	2.23
600	min	1.16	1.18	1.20	1.22	1.23	1.24	1.25
1200	min	0.592	0.599	0.618	0.627	0.634	0.642	0.656

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

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