

Cod. 0040610

VRLA BATTERY AGM TECHNOLOGY

Revision 4.0

Specifications

Nominal Voltage (V) 6V

Nominal Capacity

20 hour rate	(0.5A to 5.25V)	10Ah
10 hour rate	(0.95A to 5.25V)	9.5Ah
5 hour rate	(1.7A to 5.1V)	8.5Ah
1 C	(10A to 4.8V)	5.667Ah
3 C	(30A to 4.8V)	4.0Ah

Weight Approx. 2.0kg (4.40 Lbs.)

Internal Resistance (at 1KHz) Approx. 7 mΩ

Maximum Discharge Current for

5 seconds: 135A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 7.20 to 7.50V
Coefficient -5.0mv/°C/cell
Maximum Charging Current: 3A

Standby use:

Float Charging Voltage 6.75 to 6.90V
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%

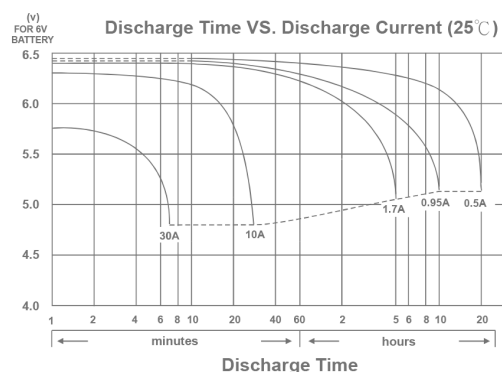
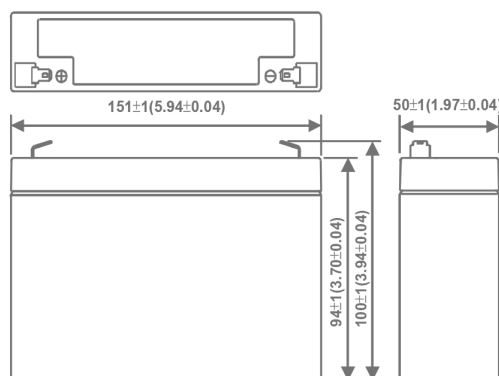
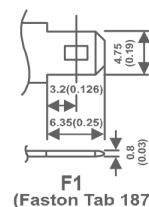
Case Material ABS UL94HB

(Option: ABS UL94 V-0 flame retardant)

Terminal F1 (Faston Tab 187 or 250)

ENERGY SAFE

Dimensions mm (inch)

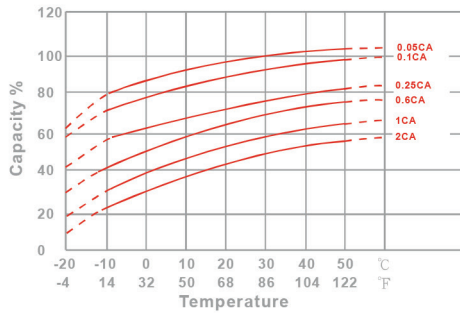


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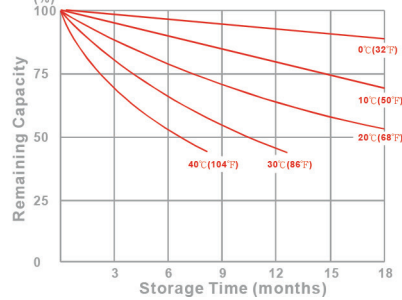
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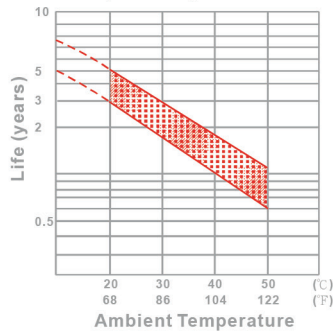
Effect of Temperature on Capacity 25°C (77°F)



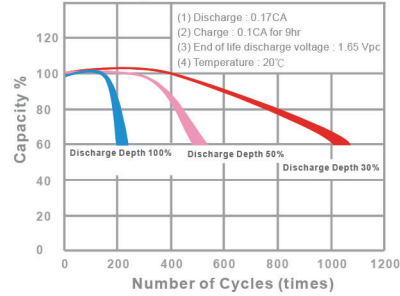
Capacity Retention Characteristic



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	5.55V	5.4V	5.25V	5.1V	4.95V	4.8V
5	min	486	495	504	513	522	531
10	min	385	390	395	400	405	410
15	min	255	265	275	285	295	305
30	min	123	128	133	138	143	148
60	min	74.0	79.0	84.0	89.0	94.0	99.0
120	min	49.0	51.0	53.0	55.0	57.0	59.0
180	min	31.0	33.0	35.0	37.0	39.0	41.0
240	min	25.0	27.0	29.0	31.0	33.0	35.0
300	min	21.0	23.0	25.0	27.0	29.0	31.0
600	min	13.0	15.0	17.0	19.0	21.0	23.0
1200	min	8.00	8.60	9.20	9.80	10.4	11.0

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

Time	End Voltage	5.55V	5.4V	5.25V	5.1V	4.95V	4.8V
5	min	42.0	42.5	43.0	43.5	44.0	44.5
10	min	33.0	33.9	34.8	35.7	36.6	37.5
15	min	22.0	23.1	24.2	25.3	26.4	27.5
30	min	11.0	12.1	13.2	14.3	15.4	16.5
60	min	6.25	6.32	6.39	6.46	6.53	6.60
120	min	4.23	4.32	4.41	4.50	4.59	4.68
180	min	2.68	2.89	3.10	3.31	3.52	3.73
240	min	2.25	2.32	2.39	2.46	2.53	2.60
300	min	1.89	1.95	2.01	2.07	2.13	2.19
600	min	1.20	1.32	1.44	1.56	1.68	1.80
1200	min	0.68	0.75	0.82	0.89	0.96	1.03

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

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