

Cod. 08412022**VRLA BATTERY AGM TECHNOLOGY**

Revision 2.0

Specifications**Nominal Voltage (V)** 12V**Nominal Capacity**

20 hour rate	2.9Ah
10 hour rate	2.4Ah
5 hour rate	2.3Ah
1 C	2.55Ah

Weight Approx. 1.11Kg**Internal Resistance (at 1KHz)** Approx. 70 mΩ**Maximum Discharge Current for****5 seconds:** 30A**Charging Methods at 25°C (77°F)****Cycle use:**

Charging Voltage 14.40 to 15V

Coefficient -5.0mv/°C/cell

Maximum Charging Current: 0.80A

Standby use:

Float Charging Voltage 13.5 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)

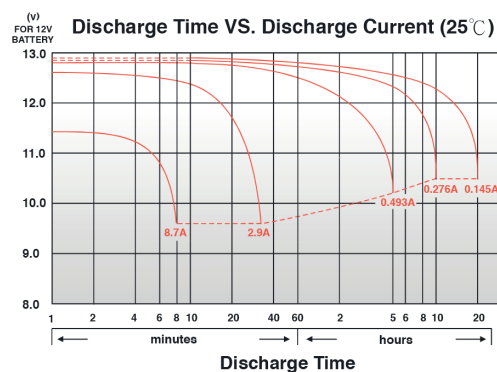
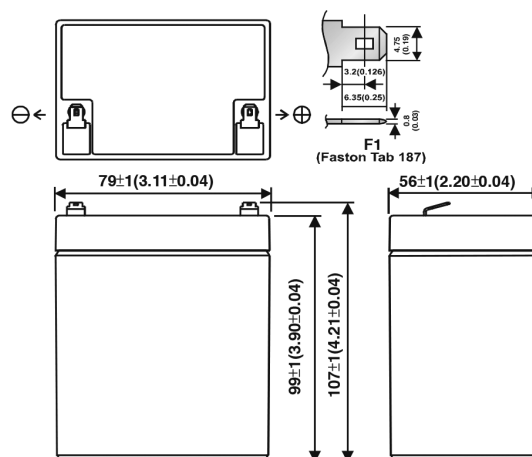
1 month 98%

3 month 94%

6 month 85%

Case Material ABS UL94HB

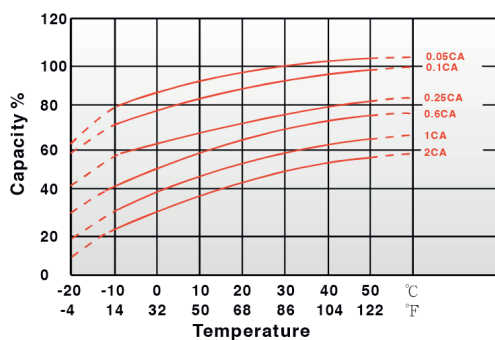
(Option: ABS UL94 V-0 flame retardant)

Terminal F1 (Faston Tab 187 or 250)**ENERGY
SAFE****Dimensions****mm (inch)**

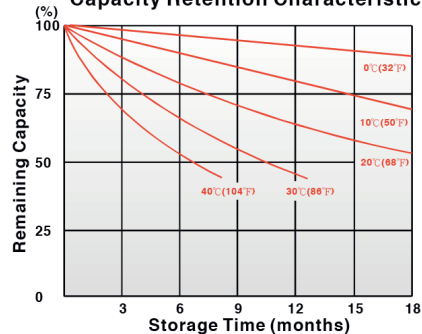
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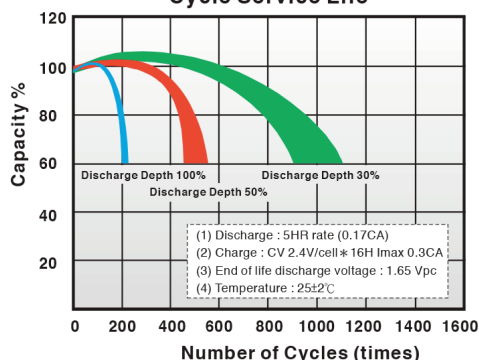
Effect of Temperature on Capacity 25°C (77°F)



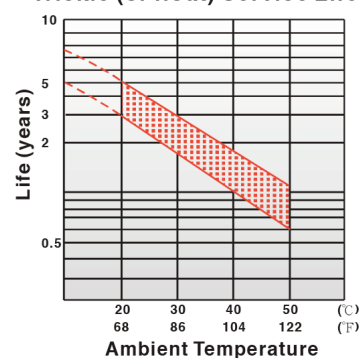
Capacity Retention Characteristic



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	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
5	min	14,80	15,50	16	16,40	16,8	17,1
10	min	10,8	11,2	11,5	11,7	11,9	12,1
15	min	8,53	8,71	8,85	9,02	9,12	9,26
30	min	4,86	4,92	4,99	5,07	5,11	5,19
60	min	2,86	2,89	2,92	2,96	3,00	3,02
120	min	1,73	1,74	1,75	1,76	1,77	1,77
180	min	1,22	1,24	1,24	1,24	1,25	1,25
240	min	0,94	0,94	0,95	0,95	0,96	0,96
300	min						
600	min						
1200	min						

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	9,80	10,3	10,9	11,2	11,50
10	min	5,71	6,07	6,35	6,64	6,83	7,03
15	min	4,5	4,75	4,93	5,02	5,1	5,19
30	min	2,94	3,01	3,07	3,1	3,15	3,18
60	min	1,71	1,74	1,77	1,79	1,81	1,84
120	min	0,99	1,01	1,02	1,03	1,05	1,05
180	min	0,71	0,72	0,73	0,74	0,75	0,75
240	min	0,56	0,57	0,58	0,59	0,59	0,60
300	min	0,47	0,47	0,48	0,49		
600	min	0,26	0,26	0,27	0,27		
1200	min	0,14	0,14	0,15	0,15		

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

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