

Cod. 0841200

VRLA BATTERY AGM TECHNOLOGY

Revision 1.0

Specifications

Nominal Voltage (V) 12V

Nominal Capacity

| | | |
|--------------|---------------------|---------------|
| 20 hour rate | (0.0414A to 10.50V) | 0.83Ah |
| 10 hour rate | (0.0730A to 10.50V) | 0.73Ah |
| 5 hour rate | (0.1320A to 10.20V) | 0.66Ah |
| 1 C | (0.4900A to 9.60V) | 0.49Ah |
| 3 C | (1.3900A to 9.60V) | 0.35Ah |

Weight Approx. 364 g (0.8 Lbs.)

Internal Resistance (at 1KHz) Approx. 125 mΩ

Maximum Discharge Current for

5 seconds: 10.5A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V
Coefficient -5.0mv/°C/cell
Maximum Charging Current: 0.21A

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%

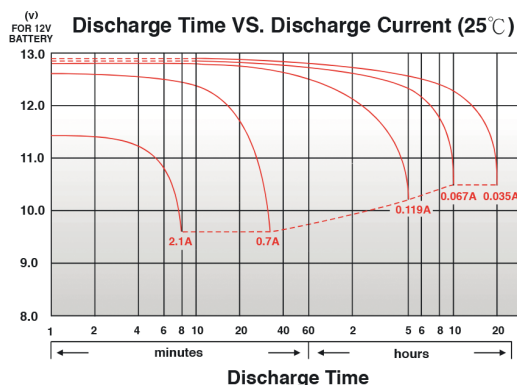
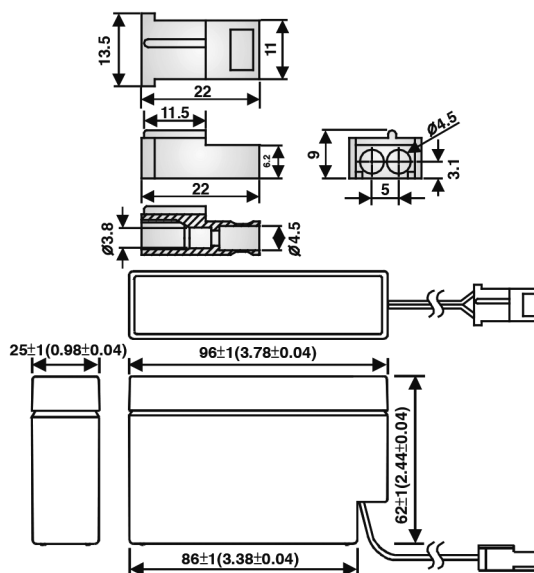
Case Material ABS UL94HB

(Option: ABS UL94 V-0 flame retardant)

Terminal Wire

ENERGY SAFE

Dimensions mm (inch)

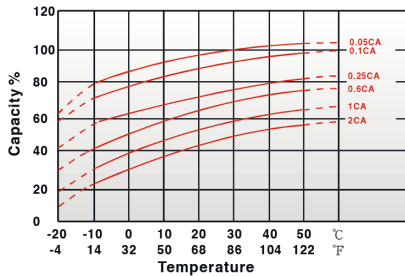


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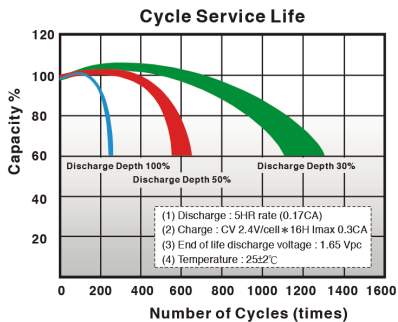
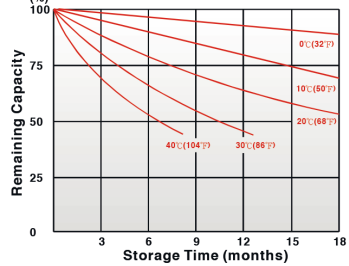
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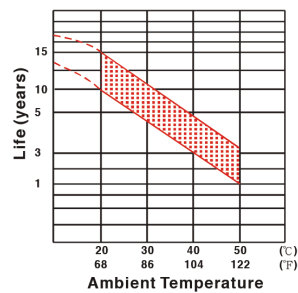
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



Trickle (or float) Service Life



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 | 4,50 | 4,80 | 5 | 5,22 | 5,29 | 5,34 |
| 10 | min | 2,76 | 2,95 | 3,14 | 3,21 | 3,25 | 3,28 |
| 15 | min | 2,15 | 2,30 | 2,44 | 2,5 | 2,53 | 2,55 |
| 30 | min | 1,36 | 1,45 | 1,54 | 1,58 | 1,60 | 1,61 |
| 60 | min | 0,80 | 0,85 | 0,90 | 0,92 | 0,94 | 0,94 |
| 120 | min | 0,47 | 0,50 | 0,53 | 0,54 | 0,55 | 0,56 |
| 180 | min | 0,34 | 0,37 | 0,39 | 0,40 | 0,40 | 0,41 |
| 240 | min | 0,27 | 0,29 | 0,31 | 0,32 | 0,32 | 0,32 |
| 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 | 2,48 | 2,67 | 2,82 | 2,94 | 3,02 | 3,10 |
| 10 | min | 1,56 | 1,65 | 1,71 | 1,77 | 1,81 | 1,84 |
| 15 | min | 1,22 | 1,28 | 1,32 | 1,35 | 1,37 | 1,39 |
| 30 | min | 0,79 | 0,81 | 0,82 | 0,83 | 0,84 | 0,9 |
| 60 | min | 0,46 | 0,47 | 0,48 | 0,48 | 0,49 | 0,49 |
| 120 | min | 0,27 | 0,27 | 0,28 | 0,28 | 0,28 | 0,28 |
| 180 | min | 0,19 | 0,20 | 0,20 | 0,20 | 0,20 | 0,21 |
| 240 | min | 0,15 | 0,15 | 0,16 | 0,16 | 0,16 | 0,16 |
| 300 | min | 0,13 | 0,13 | 0,13 | 0,13 | | |
| 600 | min | 0,07 | 0,07 | 0,07 | 0,07 | | |
| 1200 | min | 0,04 | 0,04 | 0,04 | 0,04 | | |

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

The tolerance range : X<6min (+15%~-15%), 6min≤X<10min (+12%~-12%), 10min ≤X<60min (+8%~-8%), X≥60min (+5%~-5%)