

INFINITY

BATTERY

IT0.5-6

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY

Nominal Voltage 6 Volt
20 Hour Rate Capacity 0.5 Ah



Dimensions	Inches	mm
Length	2.24	57
Width	0.57	15
Case Height	1.97	50
Terminal Height	1.97	50

Weight (Approx.)	Lbs.	Kg
	0.229	0.104

Constant Current Discharge Characteristics at 73.4°F (23°C)

Case Material A.B.S. (UL94-HB)

Terminal Wire Lead with Molex #5264-02 Plug

Maximum Short Duration Discharge Current
 (5 Seconds or Less) 7.5 Amperes
 (10 Seconds or Less) 5 Amperes
 (60 Seconds or Less) 3 Amperes

Internal Resistance (Fully Charged Battery)
(Approximately) 138 mOhm

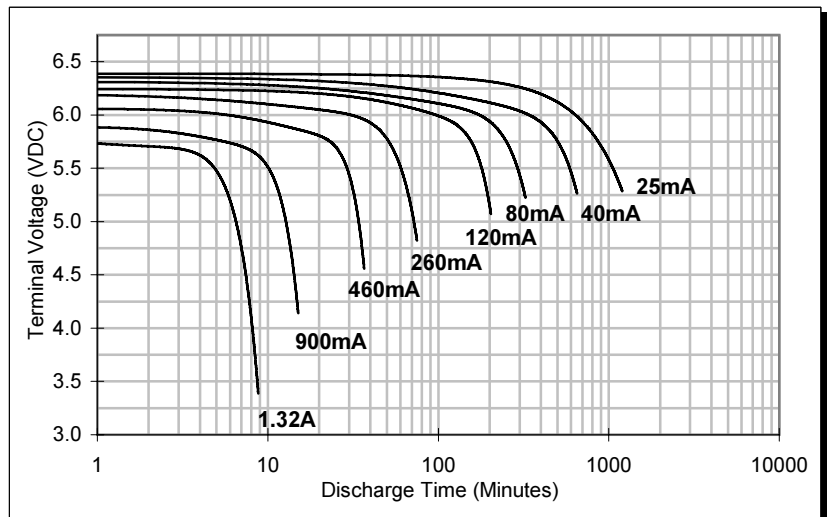
Energy Density (@ 20 Hour Rate)
 1.19 Watt-Hours/Cubic Inch (72.6 Watt-Hours/Litre)

Specific Energy (@ 20 Hour Rate)
 13.08 Watt-Hours / Pound (28.85 Watt-Hours / Kg)

Operating Temperature Range
Discharge 5°F (-15°C) ~ 122°F (50°C)
Recharge 32°F (0°C) ~ 104°F (40°C)
Storage 32°F (0°C) ~ 104°F (40°C)

Self Discharge Rate
 About 3% / Month @ 68~77°F (20~25°C)

Discharge Time	Discharge Amperes	Capacity in Ah's	Final Voltage	Discharge C-Rate
20.0 Hrs	0.025	0.500	5.25	0.05
9.2 Hrs	0.050	0.462	5.25	0.10
5.0 Hrs	0.085	0.424	5.15	0.17
4.1 Hrs	0.100	0.407	5.10	0.20
2.1 Hrs	0.175	0.372	4.97	0.35
64.0 Mins	0.30	0.32	4.77	0.6
32.5 Mins	0.50	0.27	4.50	1.0
7.2 Mins	1.50	0.18	3.00	3.0



Recharge Method : Connect battery to a Current Limited, Constant Voltage Source.

- Limit the Initial Recharge Current to 125 mA or less.
- To promote satisfactory performance in Cyclic Applications, a minimum Recharge Current of 50 mA is recommended.
- Employ Charge Voltage Temperature Compensation when Battery Temperature is less than 50°F (10°C) or greater than 86°F (30°C). Use the **Recommended** Voltage and Normalize to 77°F (25°C).
- The use of Compensation through the whole Temperature range is not generally necessary, but doing so may optimize Service Life.
- If the **Recommended** Recharge voltage is used, no Temperature Compensation is required within the range of 50~86°F (10~30°C).

Cyclic Application Recharge Voltage (77°F / 25°C)

Minimum	Recommended	Maximum	Volts D.C. Per Cell
7.20	7.28	7.35	
2.40	2.425	2.45	

Temperature Coefficient: -2.8mV / °F / Cell (- 5mV / °C / Cell)

Standby Application Recharge Voltage (77°F / 25°C)

Minimum	Recommended	Maximum	Volts D.C. Per Cell
6.75	6.83	6.90	
2.25	2.275	2.30	

Temperature Coefficient: -1.7mV / °F / Cell (- 3mV / °C / Cell)