INFINITY BATTERY

IT2.9-12

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY

Nominal Voltage **12 Volt**

20 Hour Rate Capacity **2.9 Ah**

Dimensions	**Inches**	**mm**
Length	3.11	79
Width	2.20	56
Case Height	3.90	99
Terminal Height	4.21	107

	Lbs.	**Kg**
Weight (Approx.)	2.78	1.26

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

Terminal Faston Type 187 (F1)

Maximum Short Duration Discharge Current

(5 Seconds or Less)	40.5 Amperes
(10 Seconds or Less)	27 Amperes
(60 Seconds or Less)	16.2 Amperes

Internal Resistance (Fully Charged Battery)
(Approximately) 30 mOhm

Energy Density (@ 20 Hour Rate)
1.21 Watt-Hours/Cubic Inch (73.98 Watt-Hours/Litre)

Specific Energy (@ 20 Hour Rate)
11.66 Watt-Hours / Pound (25.71 Watt-Hours / Kg)

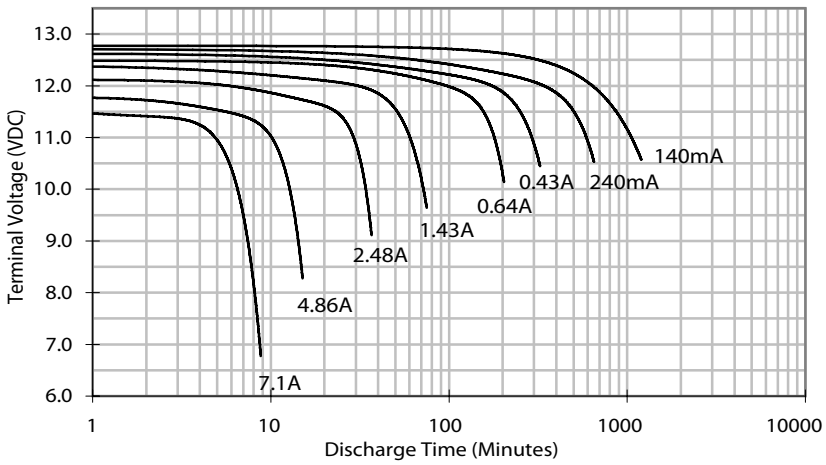
Operating Temperature Range

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)

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

Discharge Time	**Discharge Amperes**	**Capacity in Ah's**	**Final Voltage**	**Discharge C-Rate**
20.0 Hrs	0.14	2.70	10.50	0.05
9.2 Hrs	0.27	2.50	10.50	0.10
5.0 Hrs	0.46	2.29	10.29	0.17
4.1 Hrs	0.54	2.20	10.20	0.20
2.1 Hrs	0.95	2.01	9.94	0.35
64.0 Mins	1.62	1.73	9.54	0.6
32.5 Mins	2.7	1.46	9.00	1.0
7.2 Mins	8.1	0.97	6.00	3.0



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

- Limit the Initial Recharge Current to 675 mA or less.
- To promote satisfactory performance in Cyclic Applications, a minimum Recharge Current of 270 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 50~86ºF (10~30ºC).

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

Minimum	**Recommended**	Maximum	
14.40	14.55	14.70	Volts D.C.
2.40	2.425	2.45	Per Cell

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

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

Minimum	**Recommended**	Maximum	
13.50	13.65	13.80	Volts D.C.
2.25	2.275	2.30	Per Cell

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

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