INFINITY BATTERY

ITU1-34

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY

Nominal Voltage 12 Volt

20 Hour Rate Capacity 34 Ah

Dimensions	Inches	mm
Length	7.76	197
Width	5.16	131
Case Height	6.26	159
Terminal Height	7.09	180

	Lbs.	Kg
Weight (Approx.)	23.64	10.72

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

Terminal NUT & BOLT (M6)

Maximum Short Duration Discharge Current

(5 Seconds or Less)	510 Amperes
(10 Seconds or Less)	340 Amperes
(60 Seconds or Less)	204 Amperes

Internal Resistance (Fully Charged Battery)
(Approximately) 9 mOhm

Energy Density (@ 20 Hour Rate)
1.63 Watt-Hours/Cubic Inch (99.43 Watt-Hours/Litre)

Specific Energy (@ 20 Hour Rate)
17.26 Watt-Hours / Pound (38.05 Watt-Hours / Kg)

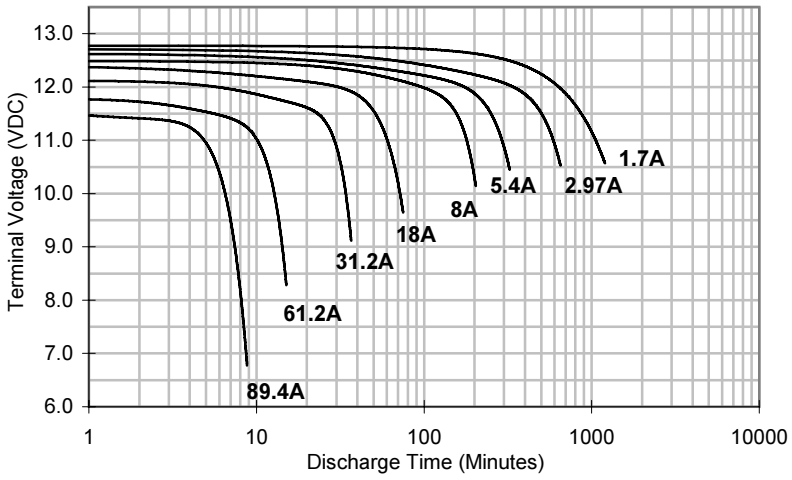
Operating Temperature Range

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 (23°C)

Discharge Time	Discharge Amperes	Capacity in Ah's	Final Voltage	Discharge C-Rate
20.0 Hrs	1.70	34.00	10.50	0.05
9.2 Hrs	3.40	31.45	10.50	0.10
5.0 Hrs	5.78	28.81	10.29	0.17
4.1 Hrs	6.80	27.68	10.20	0.20
2.1 Hrs	11.9	25.33	9.94	0.35
64.0 Mins	20.4	21.76	9.54	0.6
32.5 Mins	34	18.39	9.00	1.0
7.2 Mins	102	12.21	6.00	3.0



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

- Limit the Initial Recharge Current to 8.5 Amperes or less.
- To promote satisfactory performance in Cyclic Applications, a minimum Recharge Current of 3.4 Amperes 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	
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 / 25°C)

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)