

INFINITY

BATTERY

IT 28-12T

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY

Nominal Voltage

12 Volt

20 Hour Rate Capacity

28 Ah

Dimensions

Length
Width
Case Height
Terminal Height

Inches	mm
6.54	166
4.96	126
6.89	175
6.89	175

[See Drawing for Tolerances]

Weight (Approx.)

Lbs.	Kg
20.40	9.25



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

Terminal Bolt and Nut Type (M5)

Maximum Short Duration Discharge Current

(5 Seconds or Less)	390 Amperes
(10 Seconds or Less)	260 Amperes
(60 Seconds or Less)	156 Amperes

Internal Resistance (Fully Charged Battery)

(Approximately) 8 mOhm

Energy Density (@ 20 Hour Rate)

1.4 Watt-Hours/Cubic Inch (85.24 Watt-Hours/Litre)

Specific Energy (@ 20 Hour Rate)

15.08 Watt-Hours / Pound (33.24 Watt-Hours / Kg)

Operating Temperature Range

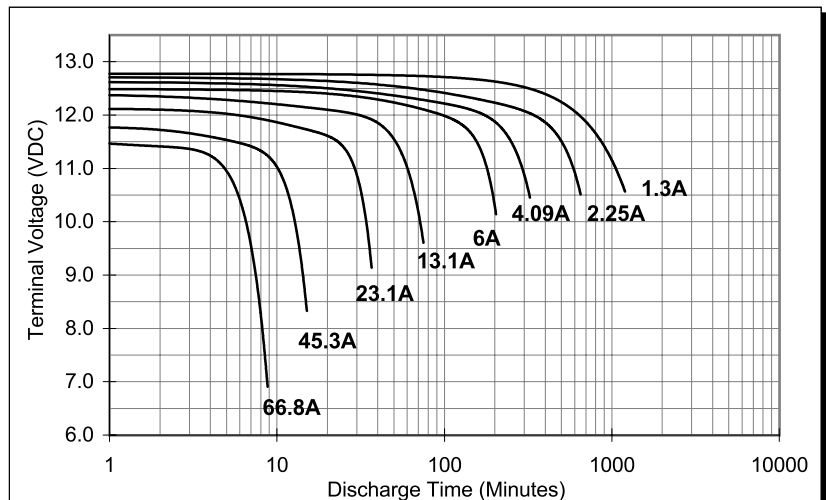
Discharge	-4°F (-20°C) ~ 122°F (50°C)
Recharge	32°F (0°C) ~ 104°F (40°C)
Storage	-20°C (-4°F) ~ 40°C (104°F)

Self Discharge Rate

About 3% / Month @ 68~77°F (20~25°C)

Constant Current Discharge Characteristics at 77°F (25°C)

Discharge Hours	Discharge Amperes	Capacity in Ah's	Final Voltage	Discharge C-Rate
20	1.30	26.00	10.50	0.05
10	2.34	23.40	10.50	0.09
5	4.42	22.10	10.20	0.17
4	5.20	20.80	10.20	0.20
Minutes				
60	15.6	15.60	9.48	0.6
31	26.0	13.52	9.00	1.0
7	78.0	9.10	6.00	3.0



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

- Limit the Initial Recharge Current to 6.5 Amperes or less.
- To promote satisfactory performance in Cyclic Applications, a minimum Recharge Current of 2.6 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)