INFINITY BATTERY

IT 28-12T

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY

MH67825

Nominal Voltage	***12 Volt***
20 Hour Rate Capacity	***28 Ah***

Dimensions	Inches	mm
Length	6.54	166
Width	4.96	126
Case Height	6.89	175
Terminal Height	6.89	175

[See Drawing for Tolerances]

	Lbs.	Kg
Weight *(Approx.)*	20.40	9.25

Case Material	A.B.S. (UL94-HB)
Terminal	SCREW TYPE (M6)

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)

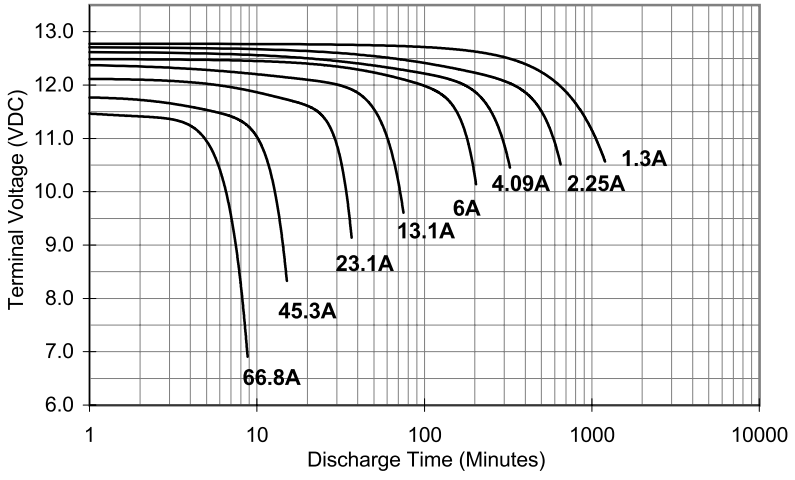
Operating Temperature Range

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 (25ºC)

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 50~86ºF (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)

Recognized by UL File No. MH67825