

INFINITY

BATTERY

IT60-12

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY



Nominal Voltage **12 Volt**

20 Hour Rate Capacity **60 Ah**

Dimensions	Inches	mm
Length	8.86	225
Width	5.28	134
Case Height	8.15	207
Terminal Height	8.31	211

	Lbs.	Kg
Weight (Approx.)	40.84	18.52

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

Terminal SCREW TYPE (M6)

Maximum Short Duration Discharge Current	
(5 Seconds or Less)	900 Amperes
(10 Seconds or Less)	600 Amperes
(60 Seconds or Less)	360 Amperes

Internal Resistance (Fully Charged Battery)
(Approximately) 6.8 mOhm

Energy Density (@ 20 Hour Rate)
1.72 Watt-Hours/Cubic Inch (105.2 Watt-Hours/Litre)

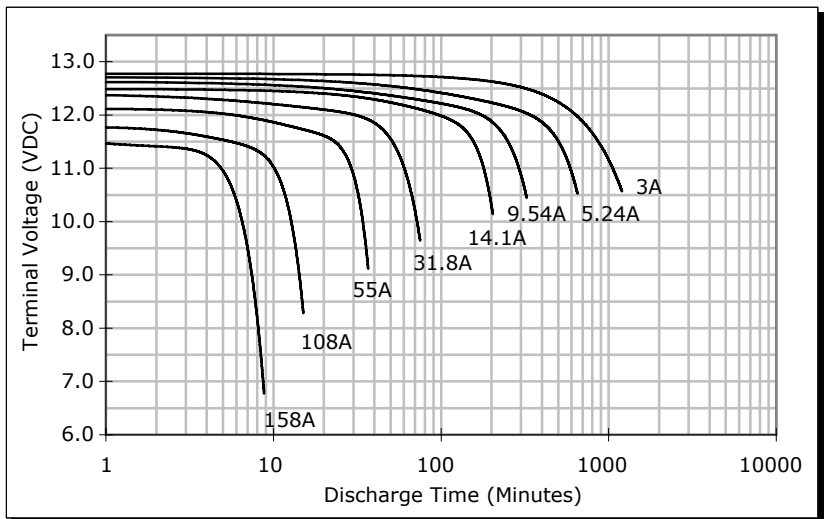
Specific Energy (@ 20 Hour Rate)
17.8 Watt-Hours / Pound (39.24 Watt-Hours / Kg)

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	3.0	60.00	10.50	0.05
9.2 Hrs	6.0	55.50	10.50	0.10
5.0 Hrs	10.2	50.85	10.29	0.17
4.1 Hrs	12.0	48.85	10.20	0.20
2.1 Hrs	21.0	44.69	9.94	0.35
64.0 Min	36.0	38.40	9.54	0.60
32.5 Min	60.0	32.45	9.00	1.00
7.2 Min	180.0	21.54	6.00	3.00



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

- Limit the initial recharge current to 15 Amperes or less.
- To promote satisfactory performance in cyclic applications, a minimum recharge current of 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
2.40	2.425	2.45

Volts D.C. 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
2.25	2.275	2.30

Volts D.C. Per Cell
Temperature Coefficient: -1.7mV / °F / Cell (- 3mV / °C / Cell)