

# INFINITY

## BATTERY

# IT100-12

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY



Nominal Voltage 12 Volt

20 Hour Rate Capacity 100 Ah

Dimensions	Inches	mm
Length	13.03	331
Width	6.89	175
Case Height	8.43	214
Terminal Height	9.41	239

Weight (Approx.)	Lbs.	Kg
	75.62	34.30

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

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

Terminal SCREW (M8)

Maximum Short Duration Discharge Current	
(5 Seconds or Less)	1500 Amperes
(10 Seconds or Less)	1000 Amperes
(60 Seconds or Less)	600 Amperes

Internal Resistance (Fully Charged Battery)  
(Approximately) 3.5 mOhm

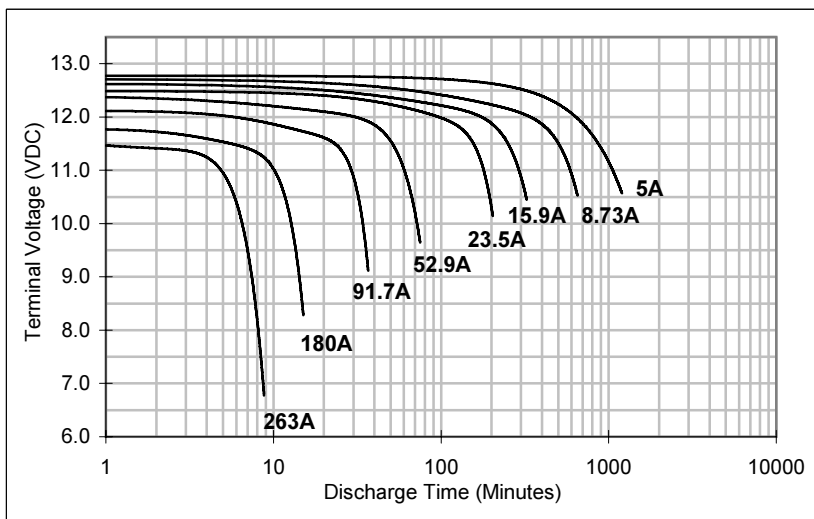
Energy Density (@ 20 Hour Rate)  
1.59 Watt-Hours/Cubic Inch (96.81 Watt-Hours/Litre)

Specific Energy (@ 20 Hour Rate)  
15.87 Watt-Hours / Pound (34.99 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)

Discharge Time	Discharge Amperes	Capacity in Ah's	Final Voltage	Discharge C-Rate
20.0 Hrs	5	100.0	10.50	0.05
9.2 Hrs	10	92.5	10.50	0.10
5.0 Hrs	17	84.7	10.29	0.17
4.1 Hrs	20	81.4	10.20	0.20
2.1 Hrs	35	74.5	9.94	0.35
64.0 Mins	60	64.0	9.54	0.6
32.5 Mins	100	54.1	9.00	1.0
7.2 Mins	300	35.9	6.00	3.0



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

- Limit the Initial Recharge Current to 25 Amperes or less.
- To promote satisfactory performance in Cyclic Applications, a minimum Recharge Current of 10 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	Volts D.C. Per Cell
14.40	14.55	14.70	
2.40	2.425	2.45	Temperature Coefficient: -2.8mV / °F / Cell (- 5mV / °C / Cell)

**Standby Application Recharge Voltage (77°F / 25°C)**

Minimum	Recommended	Maximum	Volts D.C. Per Cell
13.50	13.65	13.80	
2.25	2.275	2.30	Temperature Coefficient: -1.7mV / °F / Cell (- 3mV / °C / Cell)