

# INFINITY

## BATTERY

# IT5-12 F1

RECHARGEABLE SEALED LEAD ACID (VRLA) BATTERY



**Nominal Voltage** 12 Volt

**20 Hour Rate Capacity** 5 Ah

Dimensions	Inches	mm
Length	3.54	90
Width	2.76	70
Case Height	4.00	102
Terminal Height	4.25	108
Weight (Approx.)	Lbs.	Kg
	4.03	1.83

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

**Terminal** Faston Type 187 (F1)

Maximum Short Duration Discharge Current	
(5 Seconds or Less)	75 Amperes
(10 Seconds or Less)	50 Amperes
(60 Seconds or Less)	30 Amperes

**Internal Resistance** (Fully Charged Battery)  
(Approximately) 19 mOhm

**Energy Density (@ 20 Hour Rate)**  
1.54 Watt-Hours/Cubic Inch (93.83 Watt-Hours/Litre)

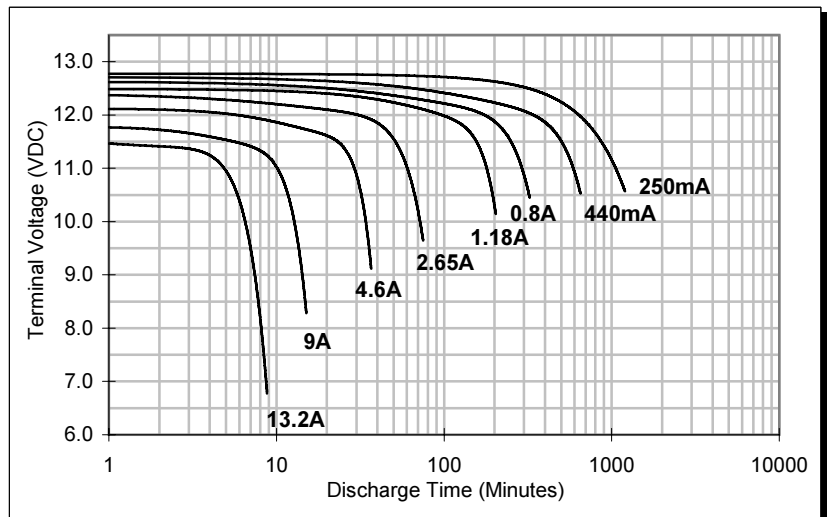
**Specific Energy (@ 20 Hour Rate)**  
14.87 Watt-Hours / Pound (32.79 Watt-Hours / Kg)

Operating Temperature Range	
<b>Discharge</b>	5°F (-15°C) ~ 122°F (50°C)
<b>Recharge</b>	32°F (0°C) ~ 104°F (40°C)
<b>Storage</b>	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	0.25	5.00	10.50	0.05
9.2 Hrs	0.50	4.62	10.50	0.10
5.0 Hrs	0.85	4.24	10.29	0.17
4.1 Hrs	1.00	4.07	10.20	0.20
2.1 Hrs	1.75	3.72	9.94	0.35
64.0 Mins	3.0	3.20	9.54	0.6
32.5 Mins	5.0	2.70	9.00	1.0
7.2 Mins	15	1.80	6.00	3.0



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

- Limit the Initial Recharge Current to 1.25 Amperes or less.
- To promote satisfactory performance in Cyclic Applications, a minimum Recharge Current of 500 mA 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)