

# Sealed Lead Acid Rechargeable Battery

## SN1.3-12 12Volt 1.3Ah

### Specifications

**Nominal Voltage(V)** 12V

#### Nominal Capacity

20 hour rate	(0.06A to 10.50V)	1.3Ah
10 hour rate	(0.114A to 10.50V)	1.14Ah
5 hour rate	(0.204A to 10.20V)	1.02Ah
1 C	(1.2A to 9.60V)	0.68Ah
3 C	(3.6A to 9.60V)	0.48Ah

**Weight** Approx. 590g(1.3Lbs.)

**Internal Resistance (at 1KHz)** Approx. 97 mΩ

#### Maximum Discharge Current for

5 seconds: 18A

#### Charging Methods at 25 °C (77 °F)

##### Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/°C /cell

Maximum Charging Current: 0.39A

##### Standby use:

Float Charging Voltage 13.5 to 13.8 V

Coefficient -3.0mV/°C /cell

#### Operating Temperature Range

Charge -15°C (5°F) to 40°C (104 °F)

Discharge -15°C (5°F) to 50°C (122 °F)

Storage -15°C (5°F) to 40°C (104 °F)

#### Charge Retention (shelf life) at 20 °C(68 °F)

1 month 92%

3 month 90%

6 month 80%

**Case Material** ABS UL94 HB

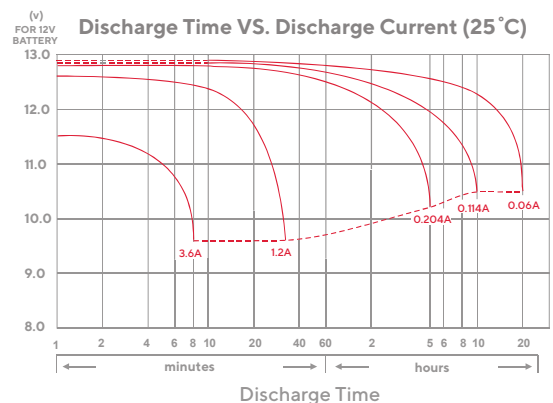
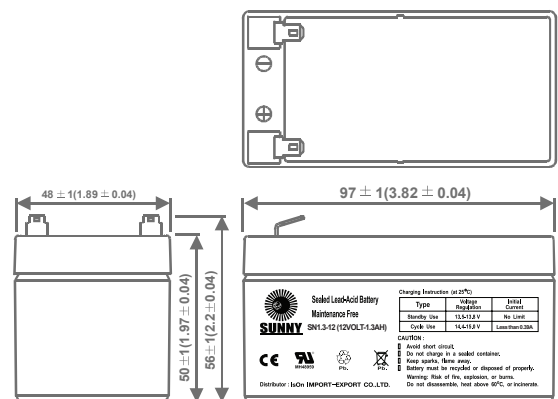
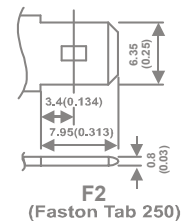
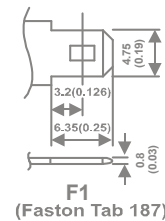
Option: Flammability resistance of (UL94 V-0)

**Terminal** F1 or F2 (Faston Tab 187 or 250)

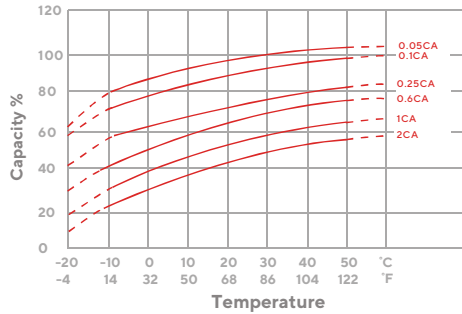


### Dimensions

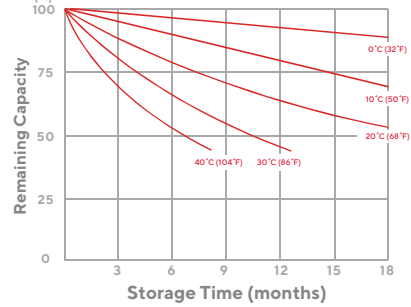
mm(inch)



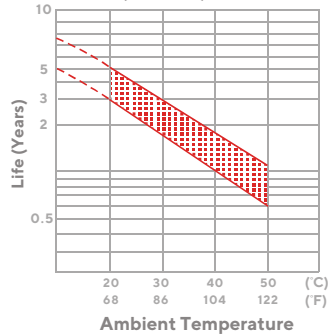
**Effect of Temperature on Capacity 25°C(77°F)**



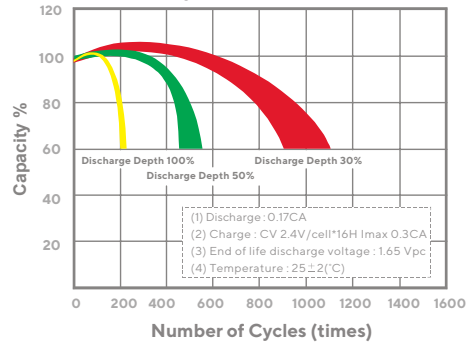
**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**



## PERFORMANCE DATA

### - Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	7.38	8.02	8.47	8.85	9.00	9.18	9.48
10	min	4.88	5.27	5.57	5.78	5.85	5.93	6.03
15	min	4.02	4.23	4.42	4.57	4.62	4.68	4.75
30	min	2.55	2.65	2.72	2.77	2.78	2.82	2.85
60	min	1.45	1.52	1.56	1.60	1.61	1.63	1.65
120	min	0.785	0.847	0.885	0.913	0.925	0.938	0.953
180	min	0.573	0.613	0.642	0.663	0.673	0.685	0.697
240	min	0.463	0.498	0.523	0.542	0.548	0.557	0.565
300	min	0.427	0.448	0.463	0.475	0.478	0.483	0.448
600	min	0.225	0.238	0.248	0.255	0.257	0.260	0.263
1200	min	0.124	0.127	0.130	0.131	0.132	0.132	0.133

### - Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	3.62	4.23	4.69	5.06	5.21	5.38	5.63
10	min	2.25	2.56	2.76	2.94	3.01	3.09	3.24
15	min	1.91	2.15	2.29	2.40	2.44	2.49	2.55
30	min	1.14	1.27	1.38	1.45	1.47	1.50	1.53
60	min	0.766	0.802	0.821	0.845	0.851	0.858	0.865
120	min	0.411	0.434	0.448	0.459	0.463	0.468	0.475
180	min	0.292	0.311	0.322	0.331	0.334	0.338	0.344
240	min	0.237	0.252	0.261	0.268	0.271	0.274	0.278
300	min	0.209	0.221	0.228	0.233	0.235	0.238	0.240
600	min	0.114	0.119	0.123	0.126	0.127	0.128	0.129
1200	min	0.0620	0.0629	0.0636	0.0642	0.0644	0.0647	0.0651

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$ (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$ (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$ (+8%~-8%),  $\geq X > 60\text{min}$ (+5%~-5%)