

Sealed Lead Acid Rechargeable Battery

SN15-12 12Volt 15Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(0.75A to 10.50V)	15Ah
10 hour rate	(1.425A to 10.50V)	14.25Ah
5 hour rate	(2.55A to 10.20V)	12.75Ah
1 C	(15A to 9.60V)	8.5Ah
3 C	(45A to 9.60V)	6Ah

Weight Approx. 4.81Kg(10.58Lbs.)

Internal Resistance (at 1KHz) Approx. 12.67mΩ

Maximum Discharge Current for

5 seconds: 225A

Charging Methods at 25 °C (77 °F)

Cycle use:

Charging Voltage 14.4 to 15V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 4.5A

Standby use:

Float Charging Voltage 13.5 to 13.8V

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

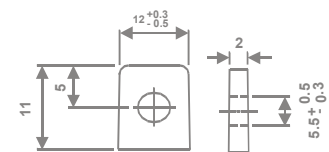
Option: Flammability resistance of (UL94 V-0)

Terminal F3

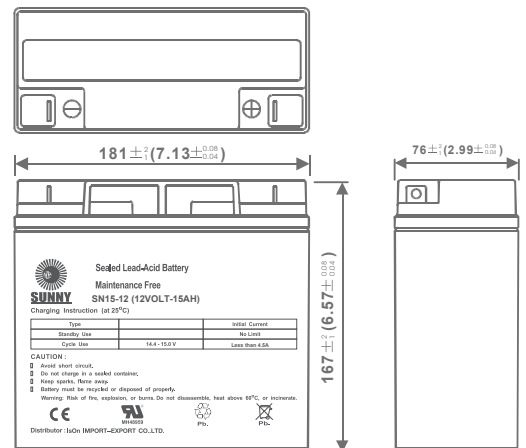


Dimensions

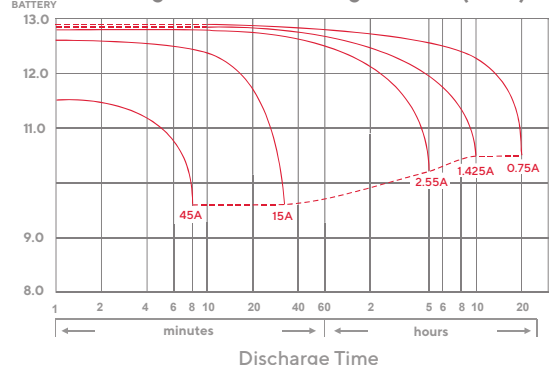
mm(inch)



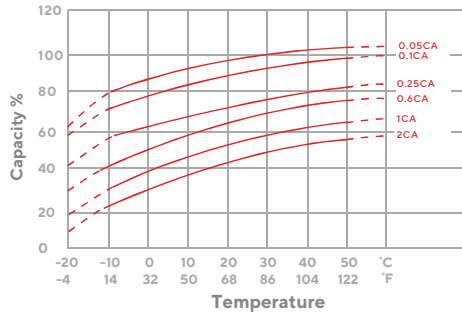
F3
(M5 Bolts)



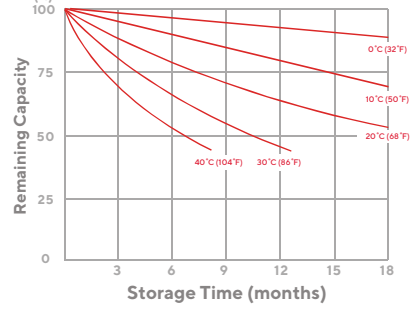
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25 °C)



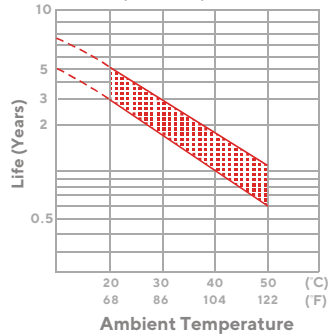
Effect of Temperature on Capacity 25°C(77°F)



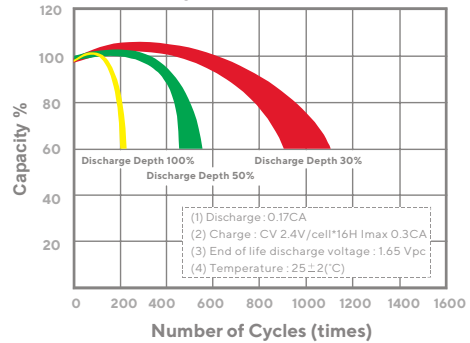
Capacity Retention Characteristic



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	62.0	79.2	90.6	97.6	99.5	101.7	103.6
10	min	50.5	60.6	68.0	72.6	73.7	75.2	76.4
15	min	44.3	49.7	53.5	56.5	57.5	58.7	60.0
30	min	25.5	27.9	30.6	32.2	32.7	33.1	33.6
60	min	15.7	16.7	17.5	18.2	18.3	18.7	19.0
120	min	9.20	9.73	10.0	10.5	10.6	10.7	10.8
180	min	6.92	7.27	7.50	7.70	7.77	7.85	7.94
240	min	5.58	5.87	6.05	6.20	6.25	6.32	6.40
300	min	4.90	5.08	5.23	5.37	5.43	5.48	5.52
600	min	2.72	2.87	2.97	3.05	3.08	3.12	3.15
1200	min	1.60	1.62	1.63	1.64	1.65	1.65	1.65

- 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	43.9	49.6	53.2	56.4	57.7	59.1	61.5
10	min	29.7	32.9	35.4	37.6	38.5	39.5	41.2
15	min	23.8	26.5	28.2	29.7	30.3	31.0	31.9
30	min	13.4	14.9	16.0	16.9	17.2	17.6	18.1
60	min	7.53	8.27	8.82	9.23	9.32	9.55	9.72
120	min	4.75	4.97	5.11	5.23	5.27	5.32	5.39
180	min	3.44	3.61	3.71	3.79	3.82	3.86	3.92
240	min	2.86	2.95	3.02	3.07	3.09	3.12	3.15
300	min	2.42	2.49	2.54	2.58	2.59	2.61	2.63
600	min	1.39	1.44	1.48	1.51	1.52	1.53	1.54
1200	min	0.753	0.772	0.787	0.798	0.801	0.805	0.809

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%)