

# Sealed Lead Acid Rechargeable Battery

## SN65-12 12Volt 65Ah

### Specifications

**Nominal Voltage(V)** 12V

#### Nominal Capacity

20 hour rate	(3.25A to 10.50V)	65Ah
10 hour rate	(6.175A to 10.50V)	61.75Ah
5 hour rate	(11.05A to 10.20V)	55.25Ah
1 C	(65A to 9.60V)	34.67Ah
3 C	(195A to 9.60V)	22.75Ah

**Weight** Approx. 21.6Kg(47.52Lbs.)

**Internal Resistance (at 1KHz)** Approx. 7mΩ

#### Maximum Discharge Current for

5 seconds: 780A

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

##### Cycle use:

Charging Voltage 14.4 to 15V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 19.5A

##### 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 98%

3 month 94%

6 month 85%

**Case Material** ABS UL94 HB

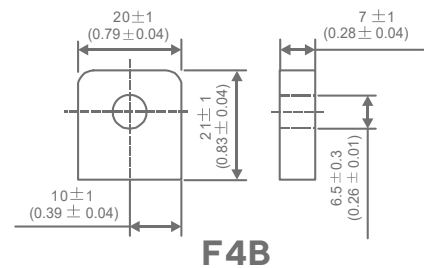
Option: Flammability resistance of (UL94 V-0)

**Terminal** F4B

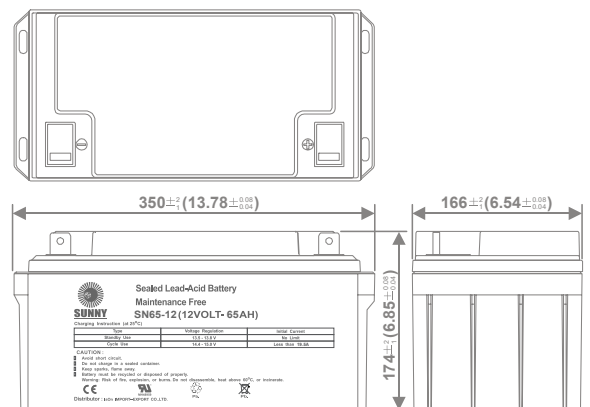


### Dimensions

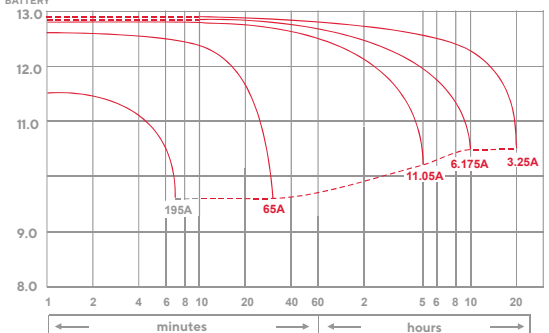
mm(inch)



F4B

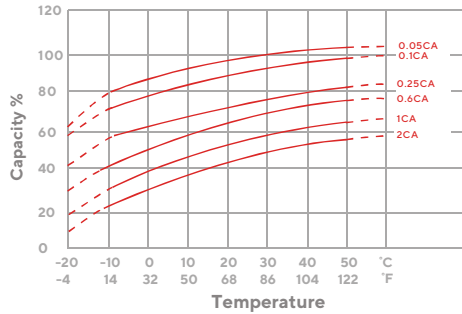


(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25 °C)

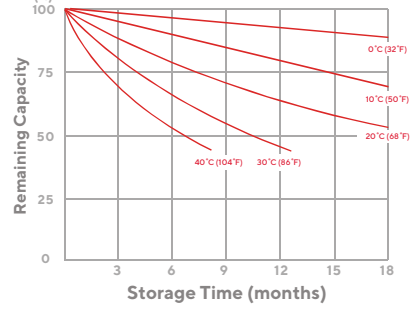


Discharge Time

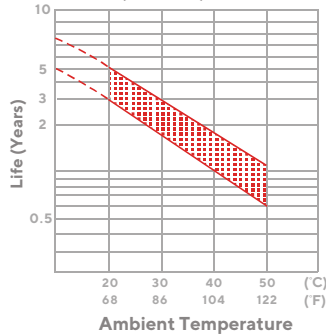
**Effect of Temperature on Capacity 25°C(77°F)**



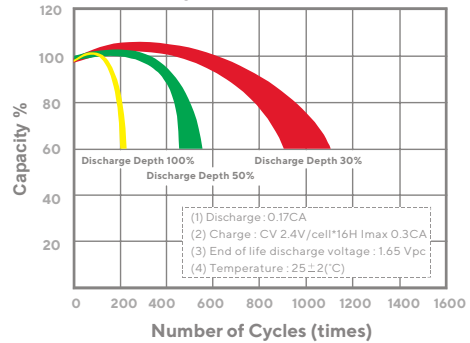
**Capacity Retention Characteristic**



**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	266	319	346	372	382	393	413
10	min	196	221	239	254	261	268	279
15	min	144	168	181	193	197	202	209
30	min	96.5	109	116	122	124	127	130
60	min	78.7	81.5	82.7	83.5	84.0	84.7	85.5
120	min	47.8	49.7	50.8	51.7	52.2	52.7	53.2
180	min	33.2	35.0	36.2	36.8	37.2	37.5	38.0
240	min	27.0	28.0	28.8	29.5	29.7	30.0	30.3
300	min	23.2	23.6	23.9	24.3	24.4	24.6	24.8
600	min	13.0	13.3	13.5	13.6	13.7	13.7	13.8
1200	min	7.03	7.14	7.24	7.33	7.36	7.41	7.46

### - 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	153	198	226	252	259	267	279
10	min	95.5	119	138	154	159	166	175
15	min	80.2	95.6	103	111	114	118	123
30	min	50.6	56.0	60.0	65.7	67.1	69.2	71.4
60	min	33.8	38.7	41.1	42.5	43	43.6	44.3
120	min	19.7	22.5	24.4	25.6	26	26.5	27.2
180	min	15.0	16.1	17.3	18.2	18.5	18.9	19.4
240	min	12.9	13.6	14.0	14.3	14.4	14.6	14.8
300	min	11.3	11.6	11.8	12.0	12.1	12.2	12.3
600	min	6.34	6.49	6.61	6.70	6.73	6.77	6.82
1200	min	3.42	3.47	3.54	3.59	3.61	3.63	3.66

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%)