



valve regulated  
sealed lead acid type  
rechargeable battery

⊕⊖ sunbattery<sup>®</sup>

# SB12-26 (12V26AH) (SB12-26 V0)

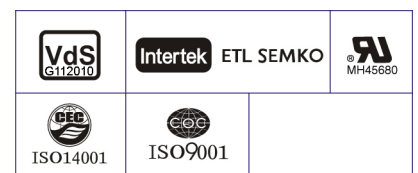


## Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	26.0AH	
Dimension	Length	166.5±1mm (6.56 inches)
	Width	175±1mm (6.93 inches)
	Container Height	125±1mm (4.92 inches)
	Total Height (with Terminal)	125±1mm (4.92 inches)
	Approx Weight	Approx 8.0 kg (17.64lbs)
Terminal	T3 / T12	
Container Material	ABS UL.94:HB0(optional ABS UL.94:V0)	
Rated Capacity	26.0 AH/1.30A	(20hr ,1.80V/cell,25°C/77°F)
	24.2 AH/2.42A	(10hr,1.80V/cell,25°C/77°F)
	22.1 AH/4.42A	(5hr,1.75V/cell,25°C/77°F)
	19.9 AH/6.63A	(3hr,1.75V/cell,25°C/77°F)
	16.3 AH/16.3A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	390A (5s)	
Internal Resistance	Approx 14mΩ	
Operating Temp.Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 7.8A.Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	SB series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Life expectancy	3~5 years at 25 C with charge voltage 2.25V/cell	

## Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	49.5	32.9	27.1	23.9	19.6	15.3	12.6	7.76	5.84	4.80	4.08	3.53	2.81	2.35	1.29
1.80V/cell	59.3	39.5	31.9	27.3	21.8	16.7	13.7	8.32	6.24	5.11	4.28	3.69	2.91	2.42	1.30
1.75V/cell	71.1	45.2	35.5	30.2	23.4	17.9	14.5	8.67	6.45	5.23	4.40	3.79	2.99	2.48	1.31
1.70V/cell	82.5	50.5	39.1	32.7	25.0	18.8	15.1	8.97	6.61	5.36	4.50	3.87	3.04	2.52	1.34
1.65V/cell	91.0	54.8	41.9	35.0	26.3	19.6	15.6	9.26	6.79	5.49	4.60	3.95	3.08	2.55	1.35
1.60V/cell	100.4	59.3	45.0	37.0	27.7	20.4	16.2	9.49	6.96	5.63	4.70	4.04	3.15	2.59	1.36

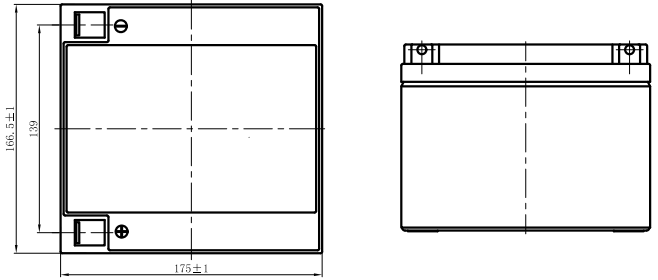
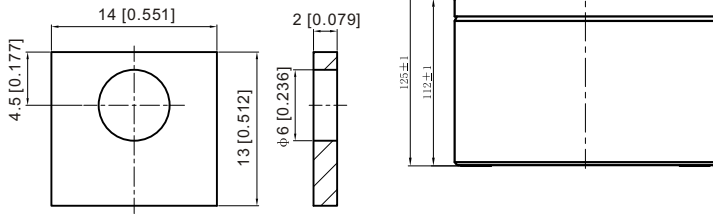
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	92.4	61.6	51.0	45.0	37.1	29.3	24.4	15.1	11.4	9.39	7.99	6.94	5.54	4.64	2.55
1.80V/cell	107.2	72.3	59.0	51.1	41.2	31.9	26.2	16.0	12.1	9.94	8.36	7.22	5.73	4.78	2.57
1.75V/cell	127.4	82.0	65.0	56.0	43.8	33.9	27.6	16.7	12.4	10.1	8.56	7.40	5.87	4.89	2.59
1.70V/cell	145.8	90.4	71.0	60.2	46.5	35.4	28.7	17.2	12.7	10.4	8.74	7.55	5.96	4.96	2.64
1.65V/cell	158.4	96.5	75.1	63.8	48.6	36.7	29.5	17.7	13.0	10.6	8.90	7.67	6.04	5.02	2.67
1.60V/cell	171.6	103.0	79.3	66.3	50.4	37.9	30.5	18.1	13.3	10.8	9.06	7.82	6.15	5.10	2.68

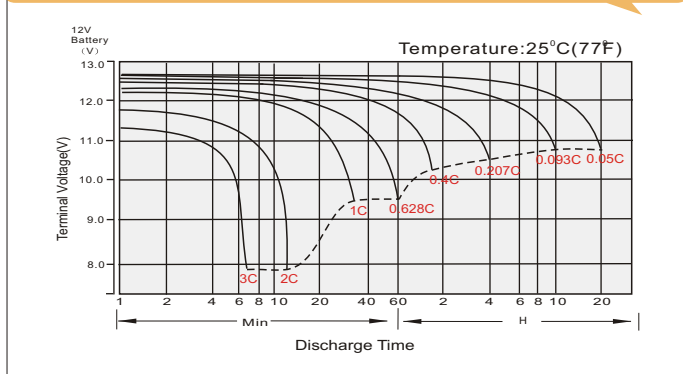
# Dimensions

## T3 Terminal

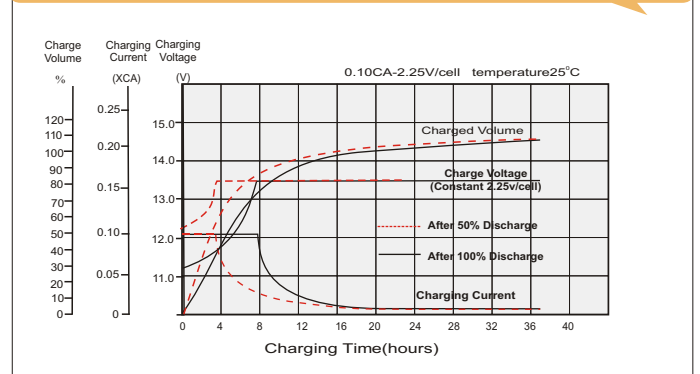
Unit: mm [inches]



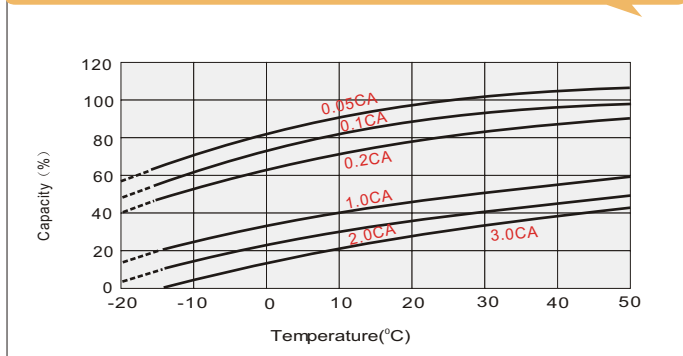
## Discharge Characteristics



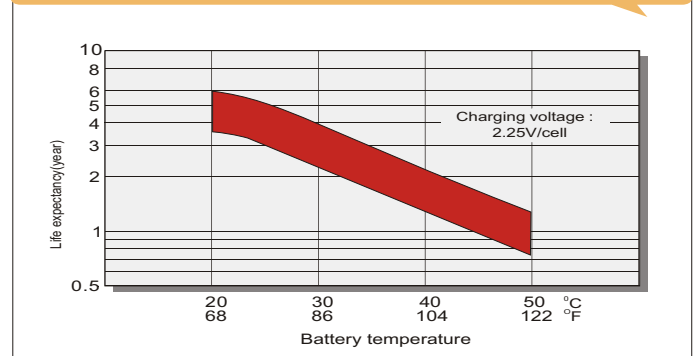
## Float Charging Characteristics



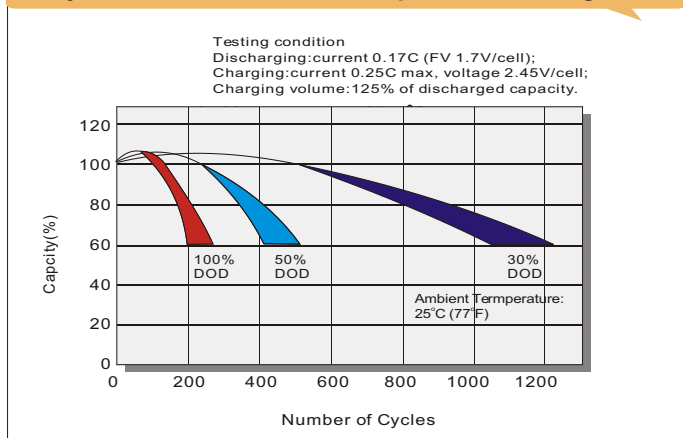
## Temperature Effects in Relation to Battery Capacity



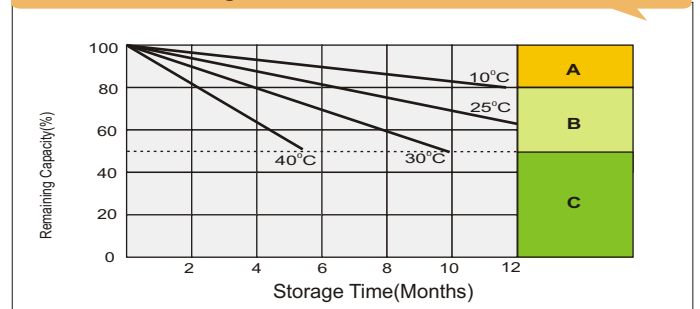
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
  1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
  3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.