



# SSB SBLFT 90-12i (12V 90AH)



## Specification

Nominal Voltage	12V	
Nominal Capacity (20hr@20°C@1.70 V/C)	90Ah	
	20 hour rate	95.2Ah
	10 hour rate	90.0Ah
	5 hour rate	77.0Ah
	3 hour rate	67.2Ah
Internal Resistance	Fully Charged battery 68°F(20°C) ≤7.5 mOhms	
Self-Discharge	3% of capacity declined per month at 20°C (average)	
	SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	562/ 22.1
	Width (mm / inch)	114 / 4.49
	Height (mm / inch)	188 / 7.40
	Total Height (mm / inch)	188 / 7.40
Approx. Weight (Kg / lbs)	26.5 / 58.4	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~60°C	
	Charge : 0~50°C	
	Storage : -20~60°C	
Max. Discharge Current 68°F(20°C)	900A(5s)	
Short Circuit Current		
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.30-2.35VPC
	Maximum charging current	0.96A
	Temperature compensation	-3mV/°C
	Standby use	2.23-2.275VPC
	Temperature compensation	-4mV/°C
Life expectancy	12 years at 20°C with charge voltage 2.25V/cell	

## Applications

- ◆ Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- ◆ Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- ◆ UL-recognized component.
- ◆ Can be mounted in any orientation.
- ◆ Computer designed lead, calcium tin alloy grid for high power density.
- ◆ Long service life, float or cyclic applications.
- ◆ Maintenance-free operation.
- ◆ Low self discharge.
- ◆ Case and cover available in both standard and flame retardant ABS.



Conform to:  
IEC60896-21&22 and/or IEC61427

### Discharge Constant Current (Amperes at 68°F20°C)

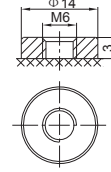
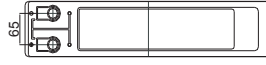
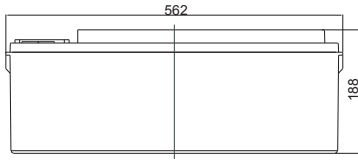
End Point Volts/Cell	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	159.9	93.5	54.9	32.9	23.6	16.2	11.1	9.58	4.92
1.65V	155.7	91.4	53.8	32.4	23.3	16.0	10.9	9.49	4.88
1.70V	150.2	88.7	52.5	31.7	22.9	15.8	10.8	9.37	4.83
1.75V	143.0	85.2	50.7	30.9	22.4	15.4	10.6	9.21	4.76
1.80V	133.8	80.6	48.4	29.8	21.6	15.0	10.3	9.00	4.67
1.85V	122.2	74.7	45.4	28.3	20.7	14.4	10.0	8.71	4.54

### Discharge Constant Current (Watts at 68°F20°C)

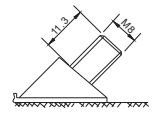
End Point Volts/Cell	15min	30min	1h	2h	3h	5h	8h	10h	10h
1.60V	284	172	104	63.2	45.8	31.7	21.9	19.1	9.83
1.65V	282	171	103	62.8	45.5	31.5	21.8	19.0	9.77
1.70V	275	167	101	61.7	44.8	31.1	21.5	18.7	9.68
1.75V	265	162	98.1	60.3	43.9	30.5	21.1	18.4	9.55
1.80V	252	155	94.1	58.5	42.6	29.8	20.7	18.0	9.37
1.85V	233	145	88.9	55.9	40.9	28.7	20.0	17.5	9.14



# Dimensions

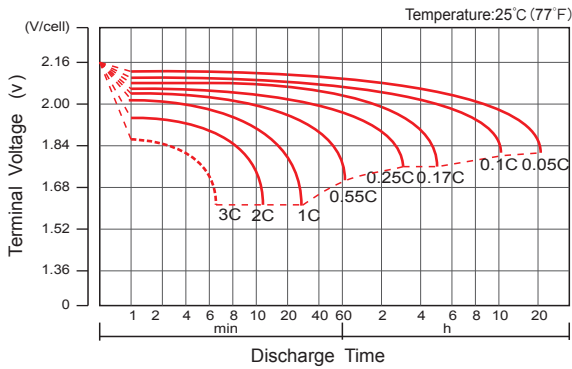


F11 Terminal

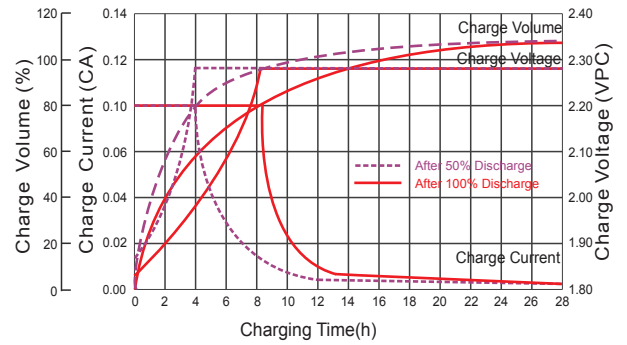


F6 Terminal

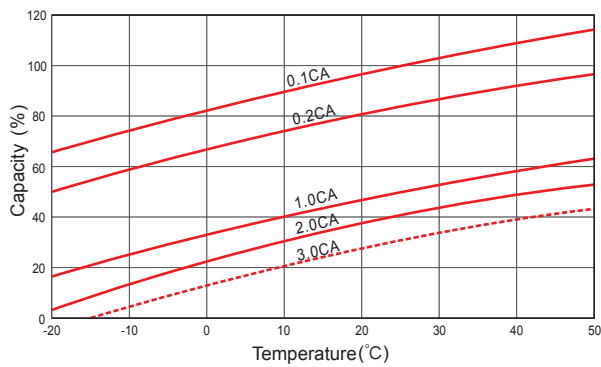
## Discharge Characteristics



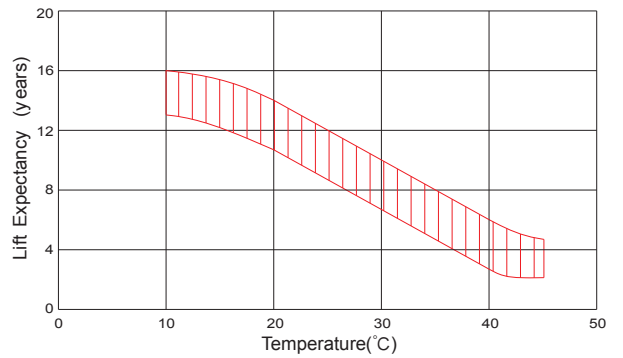
## Float Charging Characteristics



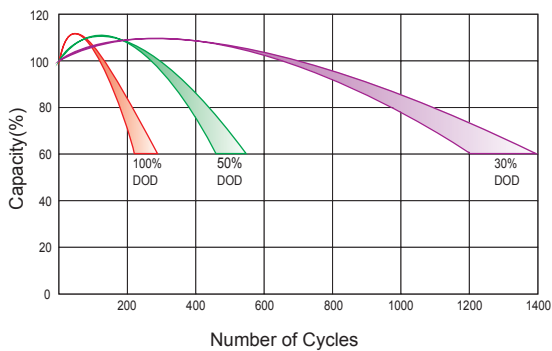
## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics

