

General Series Battery

BLW General (BL) Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. BL Series Batteries are the general purpose batteries with 5 years floating design life at 25°C Meet with IEC, BS, JIS and Eurobat standard. UL(MH62092), CE approved.

Application

- * Emergency Power System
- * Communication equipment
- * Telecommunication systems
- * Uninterruptible power supplies
- * Electric toy car and wheelchairs, etc.
- * Power tools
- * Alarm system
- * Marine equipment
- * Medical equipment
- * Fire and Security System



General Features

- * Heavy Duty Grid
- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free

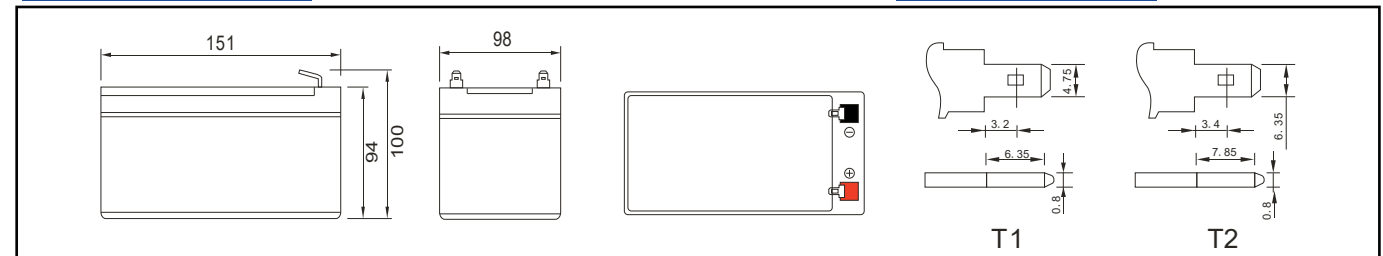
Construction

- * Positive: Lead dioxide
- * Negative: Lead
- * Electrolyte: Sulfuric acid
- * Safety Valve: EPDR
- * Separator: Fiber glass
- * Terminal: Copper
- * Container: ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		12Ah	
	Cells Per battery		6-FM-12	
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	98mm (3.86 inches)	94mm (3.7 inches)	100mm (3.94 inches)
Approx Weight	3.30kg (7.28lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(10.5V)	10 hour rate(10.8V)	5 hour rate(10.5V)	1 hour rate(9.6V)
	12.4Ah	11.81Ah	11.02Ah	7.45Ah
Max. discharge current	144A (5 Sec.)			
	Full charged at 25°C(77°F): Approx 18mΩ			
Capacity affected by Temp.(20 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	98%		94%	74%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.40-15.0V (Initial charging current less than 2.1A)		13.50-13.80V	

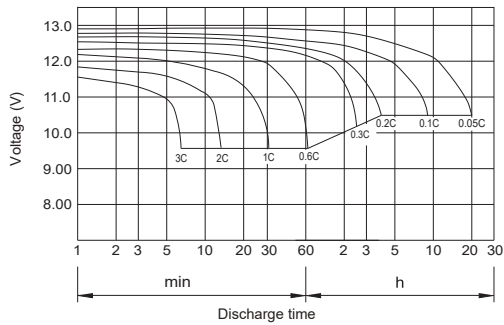
Outer dimension (mm)



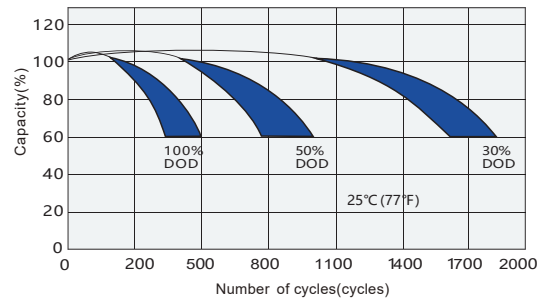
Terminal Type (mm)

F.V\TIME	5MIN	15MIN	30MIN	60MIN	90MIN	2 HR	3HR	5HR	10HR	20HR	
1.60V/cell	A	43.700	21.500	12.800	7.450	5.453	4.585	3.266	2.229	1.245	0.681
	W	80.825	41.495	25.498	14.863	10.887	9.173	6.534	4.459	2.491	1.363
1.67V/cell	A	38.796	20.383	12.526	7.396	5.399	4.562	3.249	2.216	1.226	0.647
	W	71.744	39.370	24.965	14.756	10.782	9.135	6.512	4.443	2.458	1.298
1.70V/cell	A	36.725	19.881	12.417	7.342	5.393	4.550	3.240	2.216	1.210	0.630
	W	67.929	38.429	24.748	14.666	10.776	9.116	6.497	4.443	2.428	1.264
1.75V/cell	A	33.238	19.043	12.198	7.234	5.323	4.522	3.220	2.204	1.200	0.620
	W	61.482	36.848	24.330	14.486	10.646	9.057	6.459	4.421	2.409	1.245
1.80V/cell	A	29.696	18.261	11.925	7.180	5.285	4.493	3.203	2.198	1.181	0.600
	W	54.943	35.390	23.795	14.396	10.597	9.002	6.428	4.411	2.372	1.205

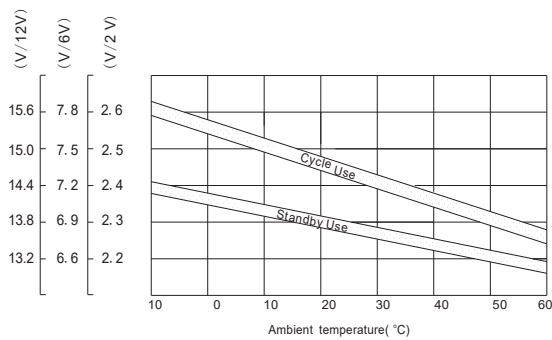
Discharge characteristic Curve



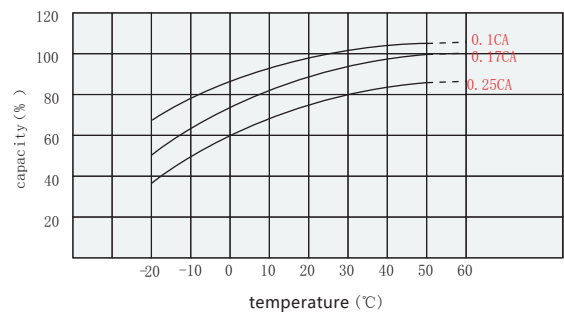
Cycle service life in relation to depth of discharge



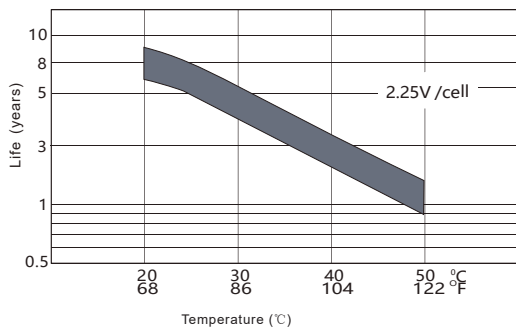
Relationship between charging voltage and temperature



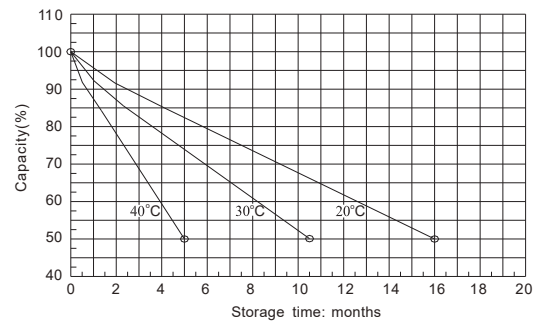
Relationship between temperature and capacity



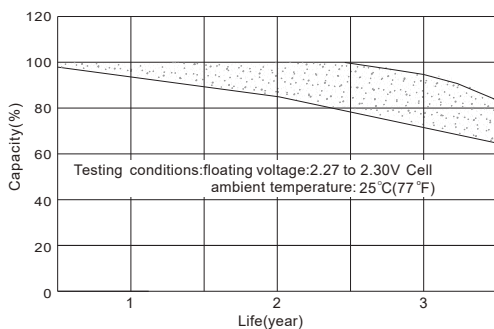
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

