

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
- * Long Life and low self-discharge design

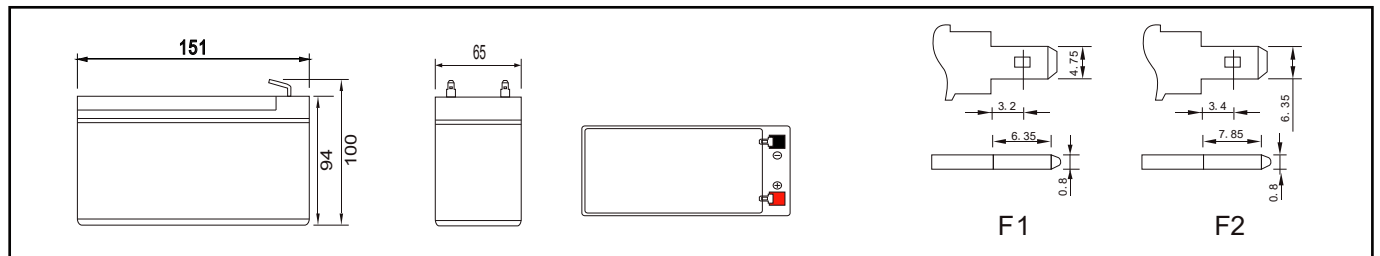
Construction

- * 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)			7.0Ah
	Cells Per battery			6-FM-7
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	65mm (2.56 inches)	94mm (3.7 inches)	100mm (3.94 inches)
Approx Weight	2.0kg (4.41lbs) ± 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)
	7.2Ah	6.59Ah	6.81Ah	4.7Ah
Max. discharge current	84A (5 Sec.)			
Internal Resistance	Full charged at 25°C(77°F): Approx 28mΩ			
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	
	14.40-14.70V (Initial charging current less than 2.1A)		13.50-13.80V	

Outer dimension (mm)

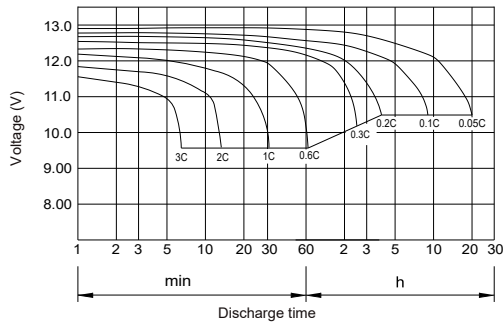


Terminal Type (mm)

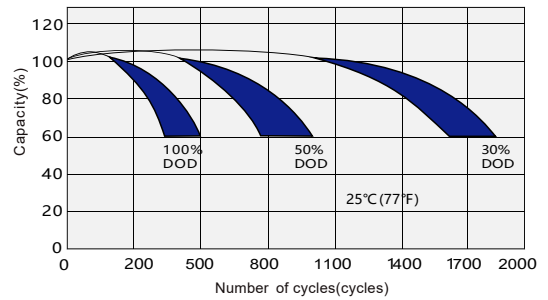
F.V\TIME	5MIN	15MIN	30MIN	60MIN	90MIN	2 HR	3HR	5HR	10HR	20HR	
1.60V/cell	A	27.300	14.200	7.870	4.710	3.447	2.833	2.018	1.377	0.695	0.396
	W	50.493	27.406	15.677	9.396	6.883	5.669	4.038	2.756	1.391	0.792
1.67V/cell	A	24.236	13.462	7.702	4.676	3.413	2.819	2.008	1.370	0.684	0.376
	W	44.819	26.003	15.350	9.329	6.817	5.645	4.024	2.746	1.372	0.754
1.70V/cell	A	22.943	13.130	7.635	4.642	3.410	2.812	2.003	1.369	0.676	0.366
	W	42.436	25.381	15.216	9.272	6.812	5.634	4.015	2.746	1.356	0.734
1.75V/cell	A	20.764	12.577	7.500	4.573	3.365	2.794	1.990	1.362	0.670	0.360
	W	38.408	24.337	14.959	9.158	6.731	5.597	3.992	2.732	1.345	0.723
1.80V/cell	A	18.552	12.061	7.332	4.539	3.341	2.777	1.979	1.358	0.659	0.348
	W	34.324	23.374	14.630	9.101	6.699	5.563	3.973	2.726	1.324	0.699

Note: The above datas are average values. (Edition 2023-07)

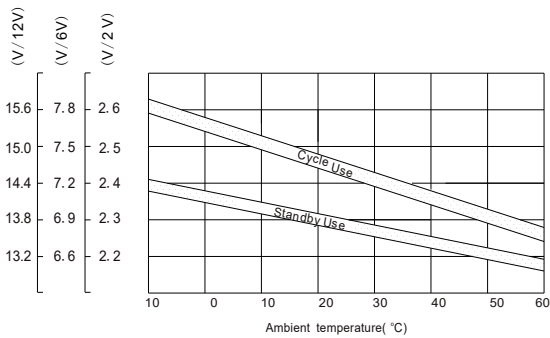
Discharge characteristic Curve



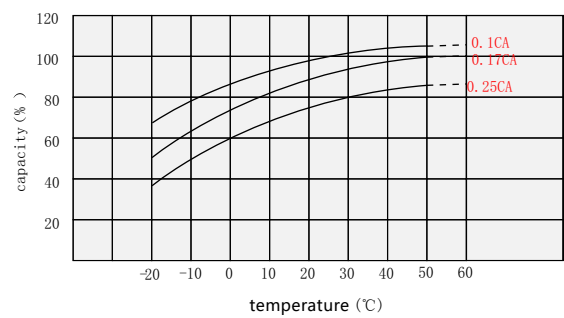
Cycle service life in relation to depth of discharge



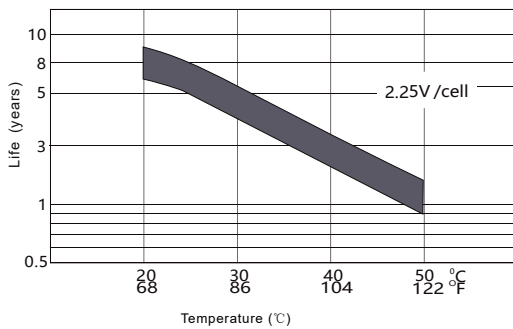
Relationship between charging voltage and temperature



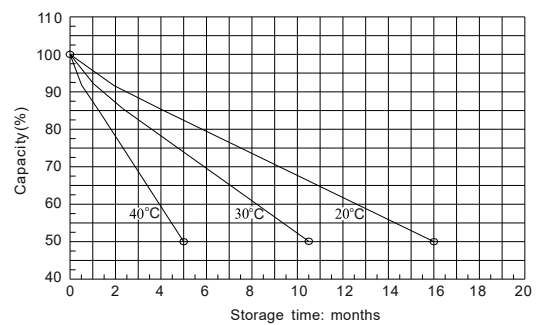
Relationship between temperature and capacity



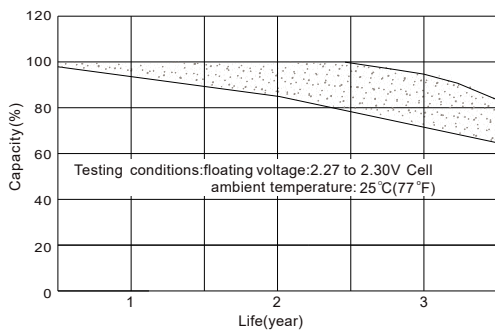
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

