

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 12 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

Construction

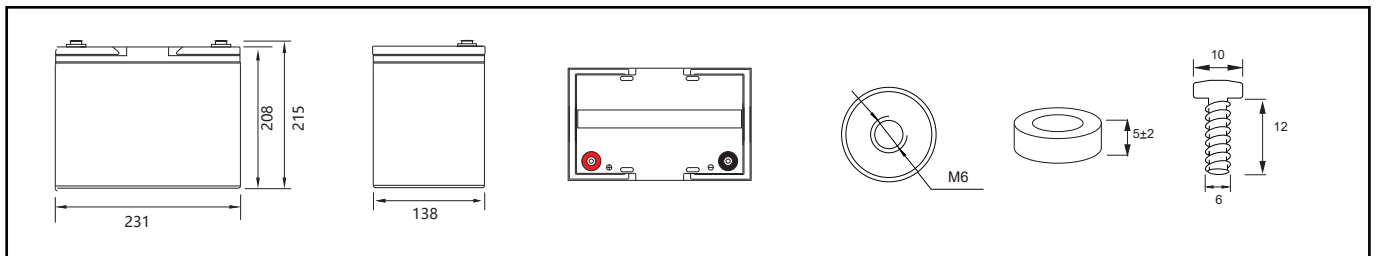
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Negative Lead
- * Safety Valve EPDR
- * Terminal Copper

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10 Hour rate)		55Ah	
	Cells Per battery		6-FM-55	
Dimension	Length	Width	Height	Total Height
	231mm (9.09 inches)	138mm (5.43 inches)	208mm (8.19 inches)	215mm (8.46 inches)
Approx Weight	15.3kg (33.7lbs) ± 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)
	57.8Ah	55.0Ah	48.94Ah	33.0Ah
Max. discharge current	660A (5 Sec.)			
	Full charged at 25°C(77°F): Approx 7.2mΩ			
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	
	14.40-14.7V (Initial charging current less than 16.5A)		13.50-13.80V	

Outer dimension (mm)

Terminal Type (mm)

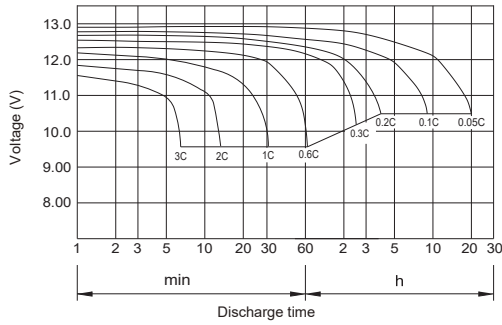


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

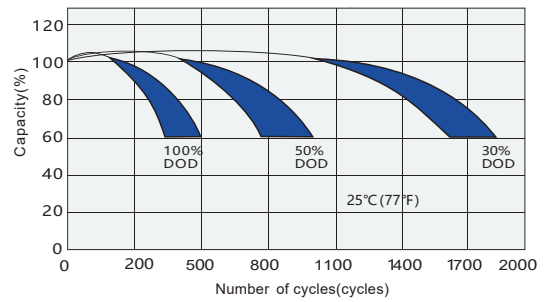
F.V/TIME		15MIN	30MIN	60MIN	90MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	96.500	57.600	33.000	24.152	20.360	14.503	9.897	7.008	5.707	3.176
	W	186.245	114.739	65.835	48.225	40.736	29.018	19.803	14.022	11.419	6.354
1.67V/cell	A	91.487	56.369	32.761	23.913	20.258	14.427	9.843	6.949	5.618	3.017
	W	176.708	112.344	65.362	47.759	40.567	28.918	19.730	13.933	11.265	6.049
1.70V/cell	A	89.231	55.877	32.522	23.889	20.208	14.390	9.840	6.879	5.547	2.937
	W	172.484	111.366	64.964	47.730	40.483	28.853	19.730	13.800	11.128	5.891
1.75V/cell	A	85.471	54.892	32.043	23.578	20.081	14.300	9.788	6.860	5.523	2.890
	W	165.387	109.484	64.167	47.157	40.222	28.686	19.635	13.772	11.041	5.802
1.80V/cell	A	81.962	53.662	31.804	23.411	19.954	14.224	9.761	6.801	5.500	2.795
	W	158.843	107.077	63.768	46.939	39.976	28.547	19.590	13.663	10.871	5.615

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

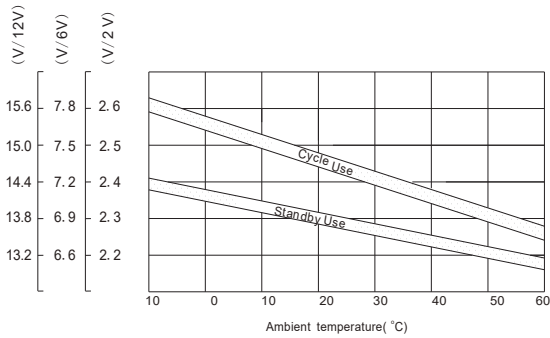
Discharge characteristic Curve



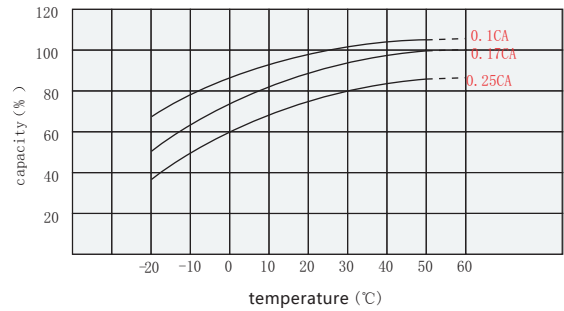
Cycle service life in relation to depth of discharge



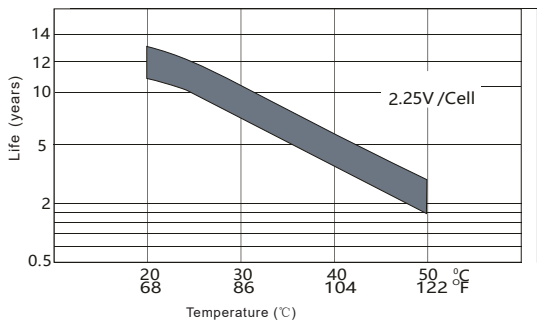
Relationship between charging voltage and temperature



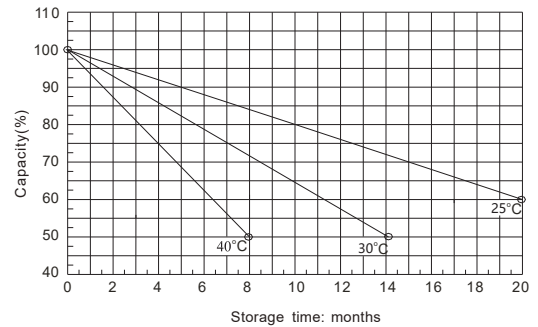
Relationship between temperature and capacity



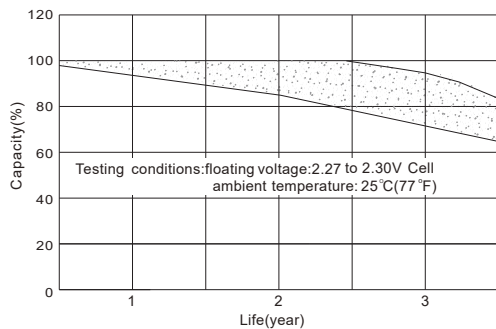
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

