

### 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

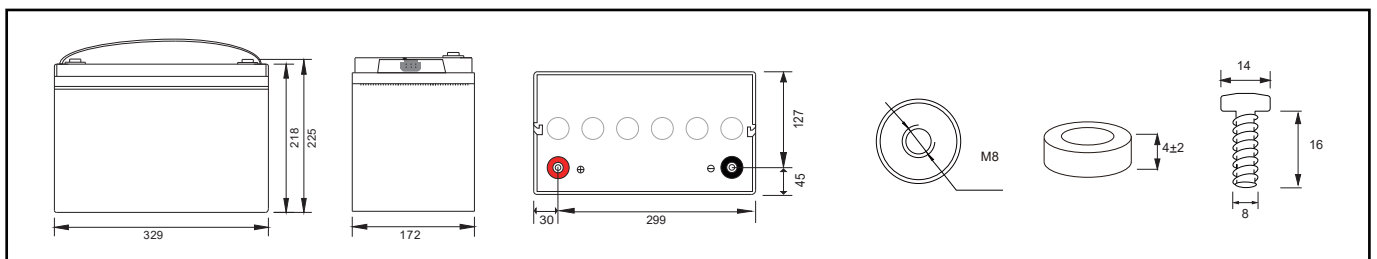
- \* Positive: Lead dioxide
- \* Negative: Lead
- \* Electrolyte: Sulfuric acid
- \* Safety Valve: EPDR
- \* Separator: Fiber glass
- \* Terminal: Copper

### Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10Hour rate)		100Ah	
	Cells Per battery		6-FM-100	
Dimension	Length	Width	Height	Total Height
	329mm (12.95 inches)	172mm (6.77 inches)	218mm (8.58 inches)	225mm (8.85 inches)
Approx Weight	27.7kg (61.06lbs) ± 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)
	104.2Ah	100.0Ah	88.9Ah	55.5Ah
Max. discharge current	1200A (5 Sec.)			
	Full charged at 25°C(77°F): Approx 4.3mΩ			
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 30A)		13.50-13.80V	

### Outer dimension (mm)

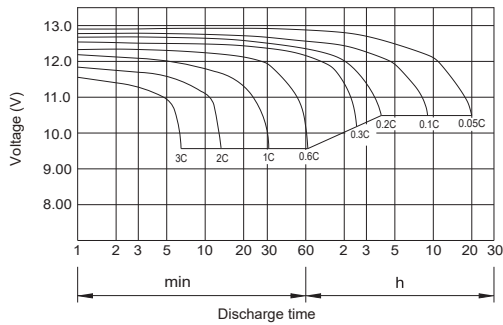
### Terminal Type (mm)



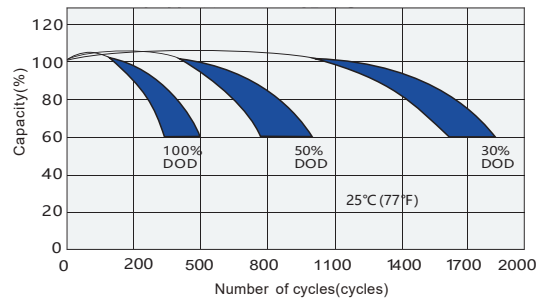
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V\TIME		15MIN	30MIN	60MIN	90MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	170.000	102.600	55.500	40.620	37.018	26.369	17.995	12.742	10.376	5.725
	W	328.100	204.379	110.723	81.105	74.066	52.759	36.006	25.494	20.761	11.455
1.67V/cell	A	161.169	100.408	55.098	40.217	36.833	26.230	17.896	12.634	10.215	5.439
	W	311.299	200.113	109.928	80.322	73.759	52.578	35.872	25.332	20.481	10.905
1.70V/cell	A	157.195	99.531	54.696	40.177	36.741	26.164	17.892	12.508	10.086	5.294
	W	303.858	198.371	109.257	80.274	73.605	52.459	35.873	25.091	20.233	10.620
1.75V/cell	A	150.571	97.777	53.891	39.654	36.511	26.000	17.797	12.473	10.041	5.210
	W	291.356	195.018	107.917	79.309	73.131	52.156	35.701	25.040	20.075	10.459
1.80V/cell	A	144.390	95.585	53.489	39.373	36.280	25.862	17.747	12.366	10.000	5.038
	W	279.827	190.731	107.246	78.943	72.683	51.904	35.619	24.842	19.766	10.122

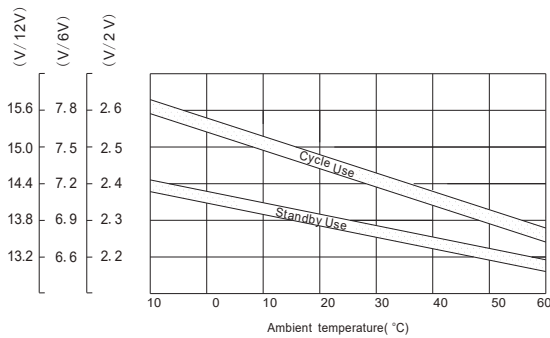
Discharge characteristic Curve



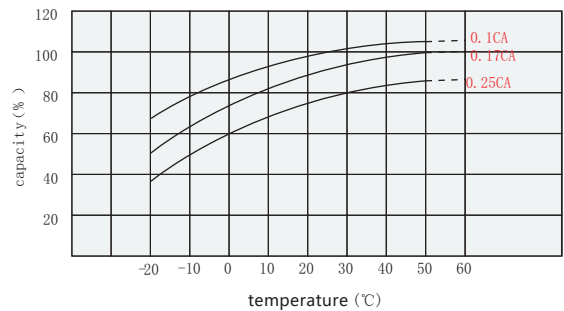
Cycle service life in relation to depth of discharge



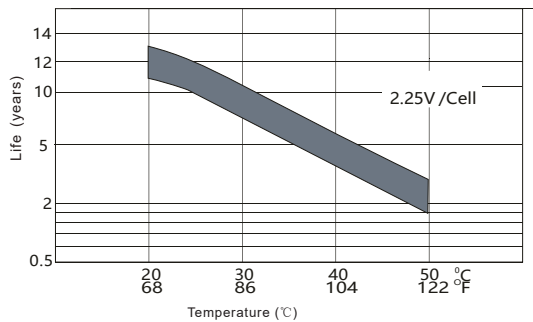
Relationship between charging voltage and temperature



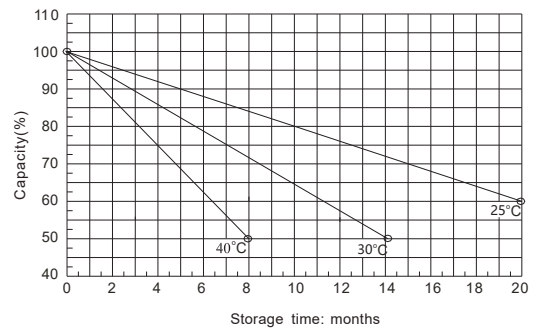
Relationship between temperature and capacity



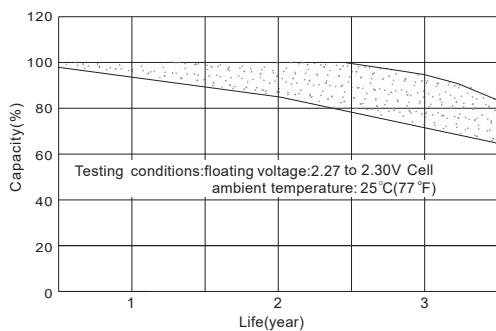
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

