

### 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
- \* Sealed and Maintenance-free

### Construction

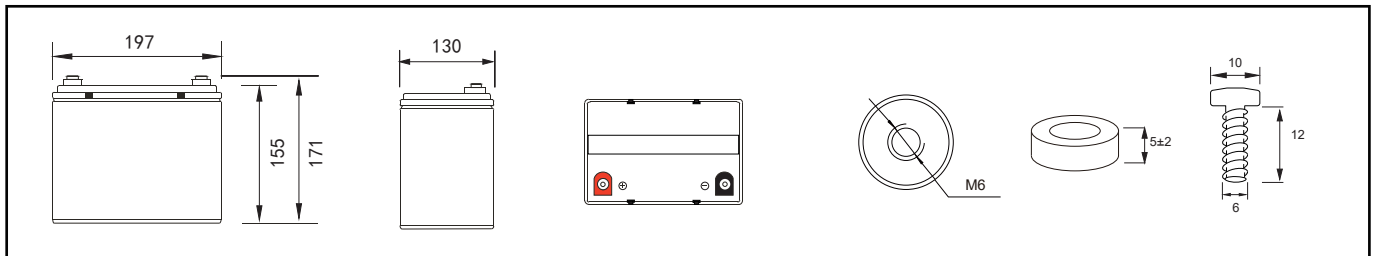
- \* Positive: Lead dioxide
- \* Negative: Lead
- \* Electrolyte: Sulfuric acid
- \* Safety Valve: EPDR
- \* Separator: Fiber glass
- \* Terminal: Copper
- \* Container: ABS (UL94-HB) / Flame Retardant ABS (UL94-V0)

### Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10 Hour rate)		33Ah	
	Cells Per battery		6-FM-33	
Dimension	Length	Width	Height	Total Height
	197mm (7.75 inches)	130mm (5.11 inches)	155mm (6.10 inches)	171mm (6.73 inches)
Approx Weight	9.75kg (21.5lbs) ± 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)
	35.02Ah	33.0Ah	30.16Ah	20.91Ah
Max. discharge current	396A (5 Sec.)			
	Full charged at 25°C(77°F): Approx 8.8mΩ			
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 9.9A)		13.50-13.80V	

### Outer dimension (mm)

### Terminal Type (mm)

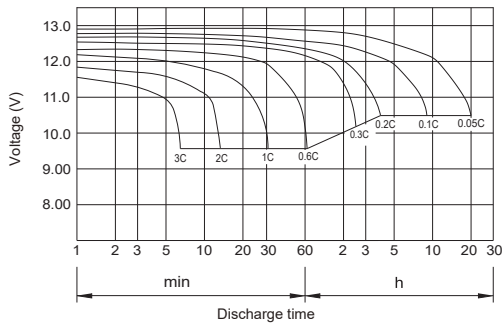


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

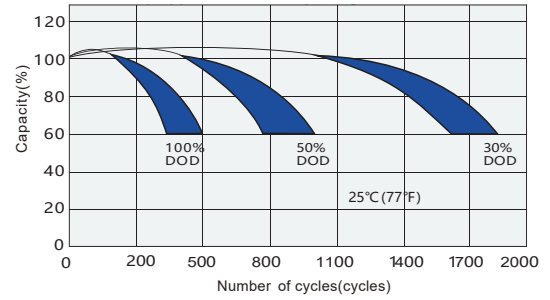
F.VVTIME		15MIN	30MIN	60MIN	90MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	59.500	36.960	21.000	15.370	12.956	9.229	6.298	4.205	3.424	1.923
	W	114.835	73.624	41.895	30.688	25.923	18.466	12.602	8.413	6.851	3.848
1.67V/cell	A	56.409	36.170	20.848	15.217	12.892	9.181	6.264	4.169	3.371	1.827
	W	108.955	72.087	41.594	30.392	25.816	18.402	12.555	8.360	6.759	3.663
1.70V/cell	A	55.018	35.854	20.696	15.202	12.859	9.157	6.262	4.128	3.328	1.778
	W	106.350	71.460	41.341	30.374	25.762	18.361	12.555	8.280	6.677	3.567
1.75V/cell	A	52.700	35.223	20.391	15.004	12.779	9.100	6.229	4.116	3.313	1.750
	W	101.975	70.252	40.833	30.009	25.596	18.255	12.495	8.263	6.625	3.513
1.80V/cell	A	50.536	34.433	20.239	14.898	12.698	9.052	6.212	4.081	3.300	1.692
	W	97.939	68.708	40.580	29.870	25.439	18.167	12.467	8.198	6.523	3.400

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

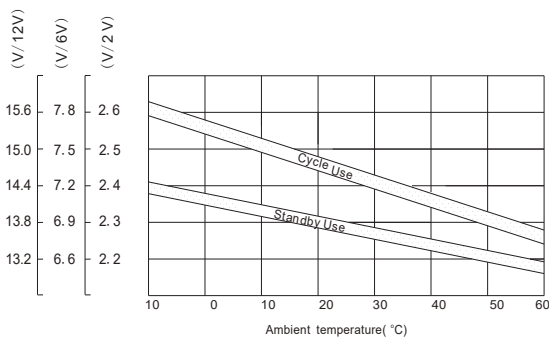
### Discharge characteristic Curve



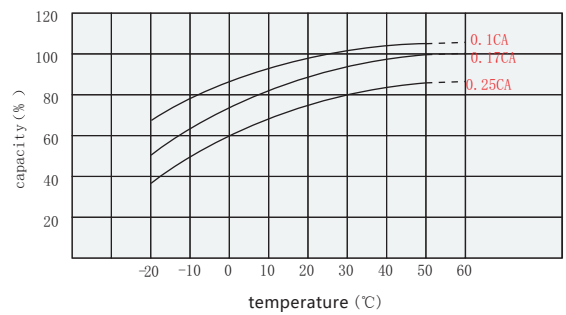
### Cycle service life in relation to depth of discharge



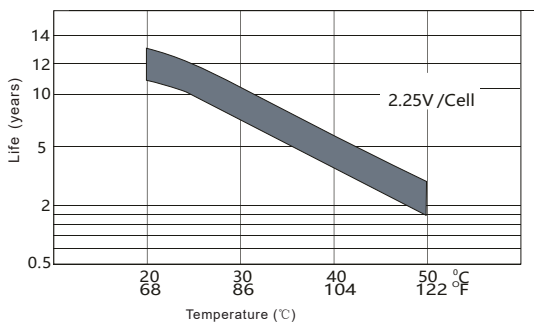
### Relationship between charging voltage and temperature



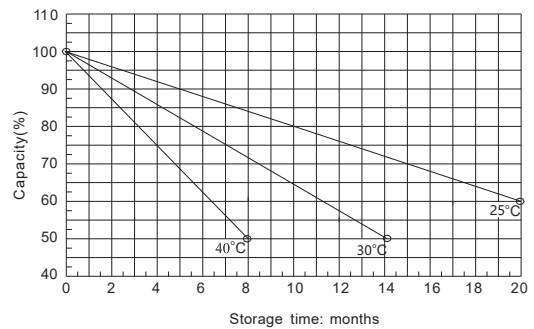
### Relationship between temperature and capacity



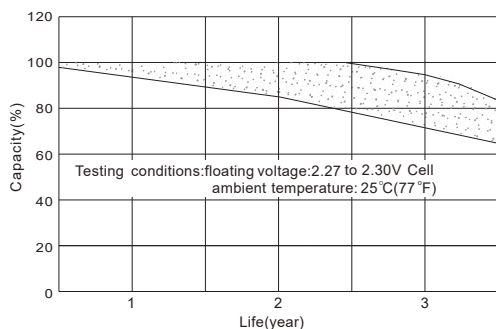
### Temperature effects on float life



### Self-discharge characteristic



### Life characteristics of standby use



### Charge characteristic Curve for standby use

