

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

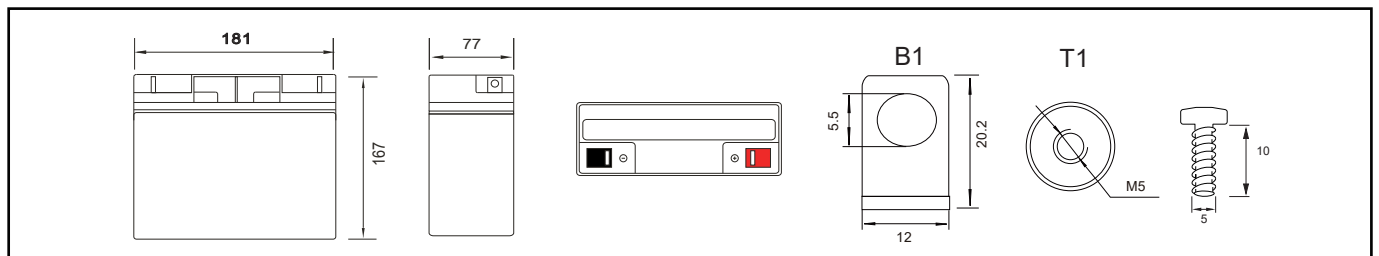
Construction

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

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		17Ah	
	Cells Per battery		6-FM-17	
Dimension	Length	Width	Height	Total Height
	181mm (7.13 inches)	77mm (3.03 inches)	167mm (6.57 inches)	167mm (6.57 inches)
Approx Weight	4.7kg (10.36lbs) ± 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)
	2Ah	24Ah	21.3Ah	14.1Ah
Max. discharge current	204A (5 Sec.)			
Full charged at 25°C(77°F): Approx 17.0mΩ				
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 5.1A)		13.50-13.80V	

Outer dimension (mm)

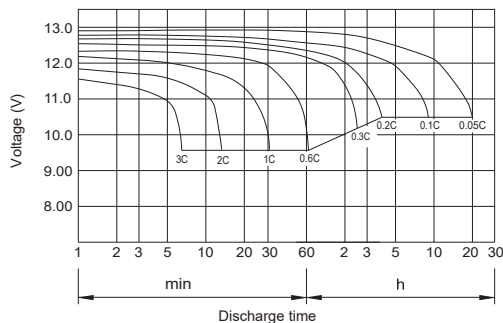


Terminal Type (mm)

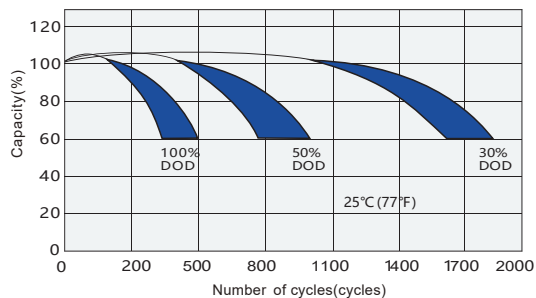
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)											
F.V\TIME		5MIN	15MIN	30MIN	60MIN	90MIN	2 HR	3HR	5HR	10HR	20HR
1.60V/cell	A	60.100	29.200	17.700	10.200	7.465	6.592	4.696	3.205	1.764	0.978
	W	111.158	56.356	35.258	20.349	14.906	13.189	9.395	6.412	3.529	1.957
1.67V/cell	A	53.356	27.683	17.322	10.126	7.391	6.559	4.671	3.187	1.737	0.929
	W	98.668	53.470	34.522	20.203	14.762	13.135	9.363	6.388	3.482	1.863
1.70V/cell	A	50.508	27.001	17.171	10.052	7.384	6.543	4.659	3.186	1.715	0.904
	W	93.422	52.192	34.222	20.080	14.753	13.107	9.342	6.388	3.440	1.814
1.75V/cell	A	45.712	25.863	16.868	9.904	7.288	6.502	4.630	3.169	1.700	0.890
	W	84.555	50.045	33.643	19.833	14.576	13.023	9.288	6.357	3.413	1.787
1.80V/cell	A	40.841	24.801	16.490	9.830	7.236	6.461	4.605	3.160	1.673	0.861
	W	75.562	48.064	32.904	19.710	14.508	12.943	9.243	6.343	3.360	1.729

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

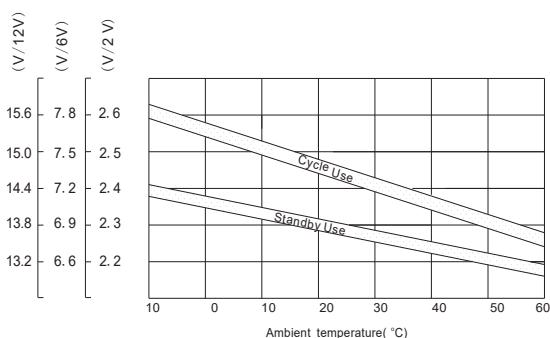
Discharge characteristic Curve



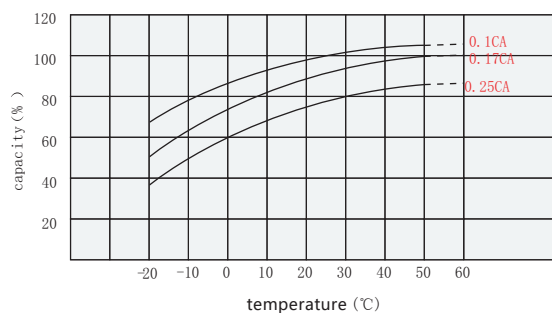
Cycle service life in relation to depth of discharge



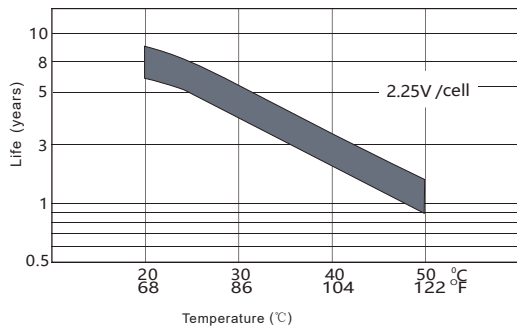
Relationship between charging voltage and temperature



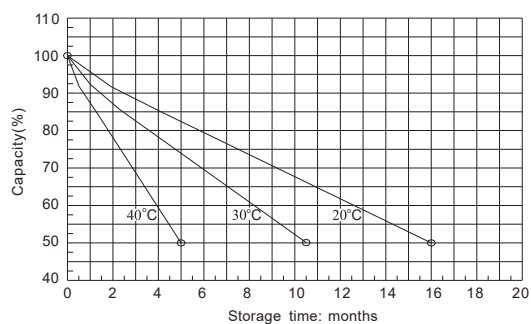
Relationship between temperature and capacity



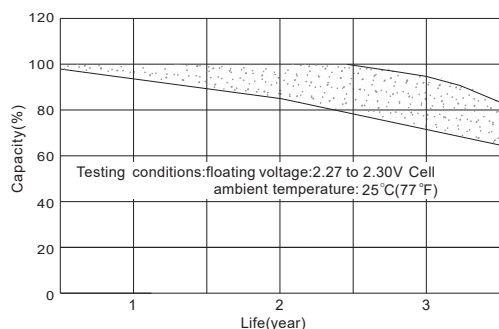
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

