

General Series Battery

High performance plates and electrolyte to give extra power output for common power backup system. 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

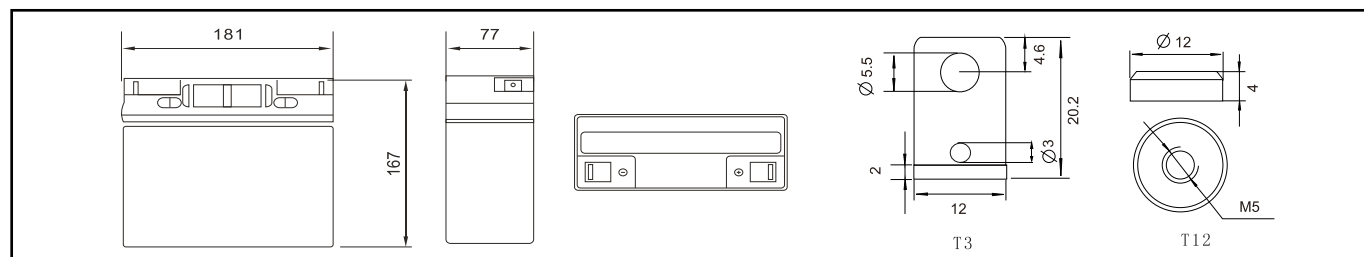
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- * Negative Lead
- * Safety Valve EPDR
- * Terminal Copper



Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		20Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	181mm (7.13 inches)	77mm (3.03 inches)	167mm (6.57 inches)	167mm (6.57 inches)
Approx Weight	5.45kg (12.02lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(1.0A,10.5V)	10 hour rate(1.79A,10.8V)	5 hour rate(3.4A,10.5V)	1 hour rate(12A,9.6V)
	20.0Ah	17.9Ah	17Ah	12Ah
Max.discharge current	300A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 11mΩ			
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
	91%		82%	64%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.4-14.7V (Initial charging current less than 6.0A)		13.50-13.80V	

Outer dimension (mm)

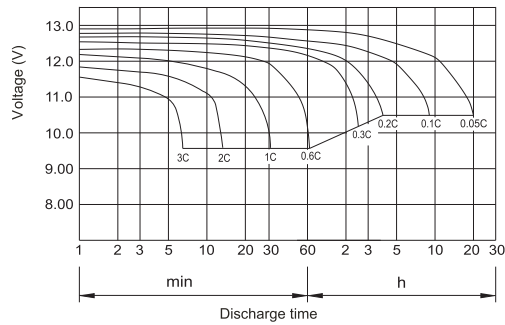


Terminal Type (mm)

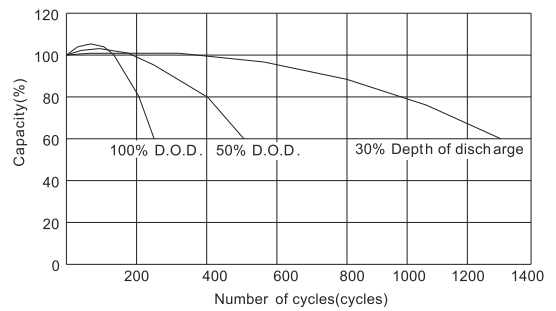
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)													
F.V\TIME		5min	10min	15min	30min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
9.60V	A	72.00	47.20	35.00	23.00	12.00	7.00	5.15	4.13	3.51	2.32	1.89	1.03
	W	849.20	533.30	403.30	244.20	138.30	81.00	59.58	47.83	40.58	26.75	21.92	12.00
10.20V	A	66.00	45.20	32.20	21.80	11.27	6.72	5.00	4.00	3.44	2.28	1.86	1.01
	W	799.20	505.00	379.20	242.50	130.00	77.80	57.92	46.33	39.83	26.33	21.50	11.67
10.50V	A	60.10	42.20	30.00	21.20	10.90	6.58	4.92	3.80	3.40	2.25	1.84	1.00
	W	771.70	490.00	362.50	240.00	126.20	76.30	56.92	44.00	39.58	26.08	21.33	11.58
10.80V	A	57.50	40.30	28.00	20.60	10.53	6.42	4.83	3.73	3.25	2.19	1.79	0.98
	W	676.70	475.00	349.20	239.20	122.50	74.70	56.25	43.46	37.83	25.00	20.83	11.33
11.10V	A	53.40	38.00	26.00	20.00	10.17	6.25	4.58	3.67	3.11	2.13	1.75	0.95
	W	654.20	459.20	332.50	237.50	120.80	74.20	54.58	43.33	37.00	24.17	20.42	11.25

Note: The above datas are average values. (Edition 2018-03)

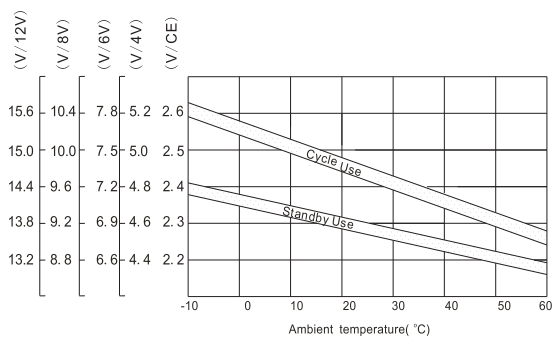
Discharge characteristic Curve



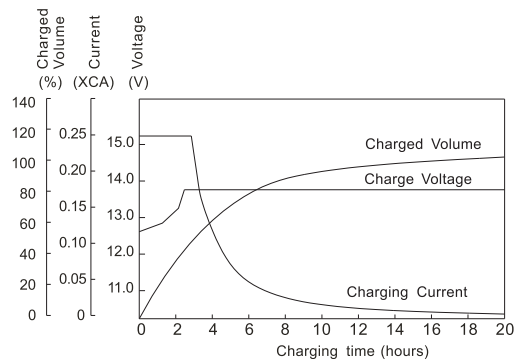
Cycle service life in relation to depth of discharge



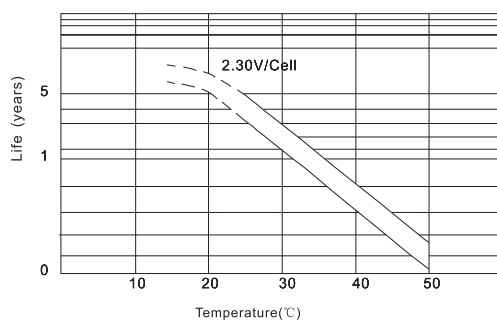
Relationship between charging voltage and temperature



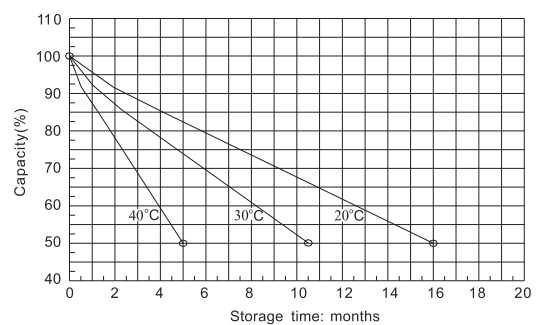
Constant voltage charging characteristic (0.25CA, at 25°C)



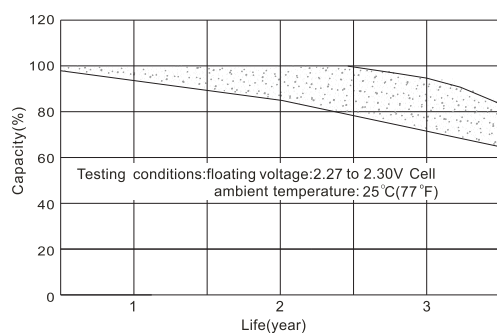
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

