

General Series Battery

JYC General (GP) 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. GP Series Batteries are the general purpose batteries with 15 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

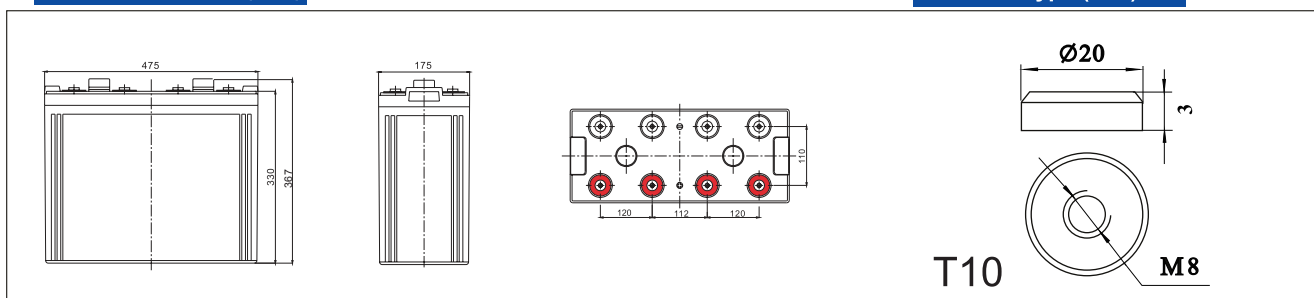
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- * Negative Lead
- * Safety Valve EPDR
- * Terminal Copper

Specification

Battery Model	Nominal Voltage		2V	
	Rated capacity (10 Hour rate)		1000Ah	
Dimension	Length	Width	Height	Total Height
	477mm(18.7 inch)	174mm(6.8 inch)	327mm(12.8 inch)	366mm(14.40 inch)
Approx Weight	54.4kg(119.93lbs)±3%			
Capacity @ 25°C (77°F)	10 hour rate(100A, 1.80V)	8 hour rate(113A, 1.75V)	3 hour rate(238A, 1.80V)	1hour rate(600A, 1.60V)
	1000Ah	904Ah	714Ah	600Ah
Max.discharge current	5000A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 0.25mΩ			
Capacity affected by Temp.(10 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	
	2.35-2.50V (Initial charge current less than 300A)		2.25-2.30V	

Outer dimensions (mm)

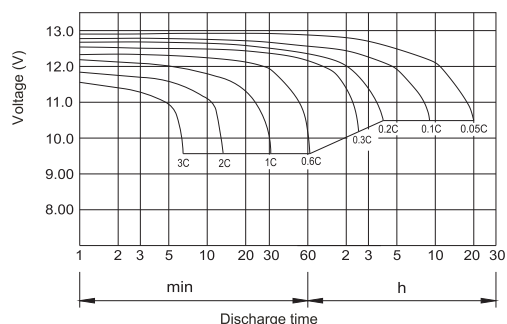
Terminal Type (mm)



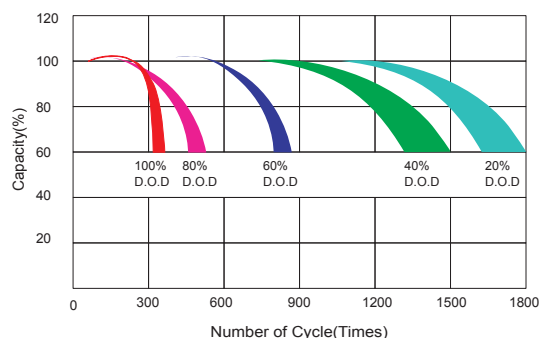
Constant Current(Amp) and Constand Power(Watt) Discharge Table at 25°C(77°F)

FV/TIME	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	3203	2110	1701	1140	600.0	350.0	257.0	200.0	165.0	117.0	56.7
	W	5509	3756	3040	2043	1080.0	640.5	476.7	375.0	312.7	223.5	109.9
1.70V	A	3102	1904	1602	1090	564.0	334.0	250.0	195.0	162.0	114.0	55.0
	W	5522	3543	2988	2039	1063.1	641.6	482.5	377.9	314.8	222.3	107.5
1.75V	A	3001	1703	1401	1020	546.0	326.0	244.0	192.0	160.0	113.0	55.0
	W	5462	3229	2665	1956	1053.8	630.2	473.8	374.4	312.6	221.5	108.4
1.80V	A	2892	1605	1302	940	528.0	318.0	238.0	189.0	156.0	110.0	54.0
	W	5408	3085	2500	1815	1024.3	620.7	467.7	372.0	307.3	217.3	107.2
1.85V	A	2795	1504	1202	840	510.0	310.0	230.0	184.0	152.0	107.0	51.0
	W	5283	2903	2332	1638	999.6	610.7	455.4	365.2	302.3	213.6	103.0

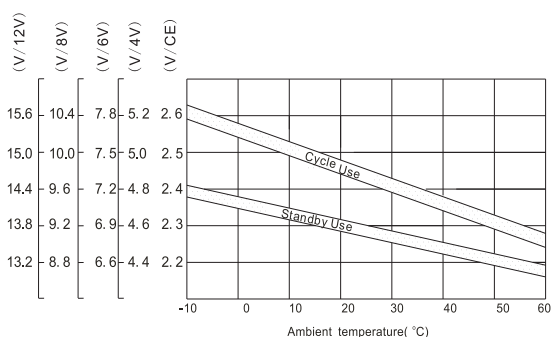
Discharge characteristic Curve



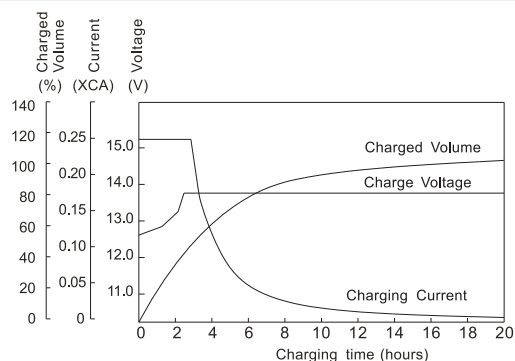
Cycle service life in relation to depth of discharge



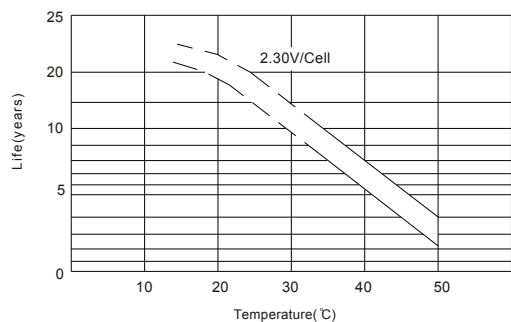
Relationship between charging voltage and temperature



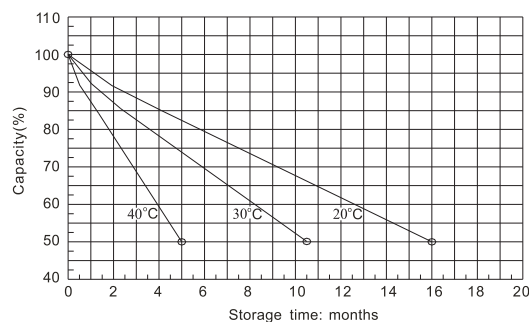
Constant voltage charging characteristic (0.25CA, at 25°C)



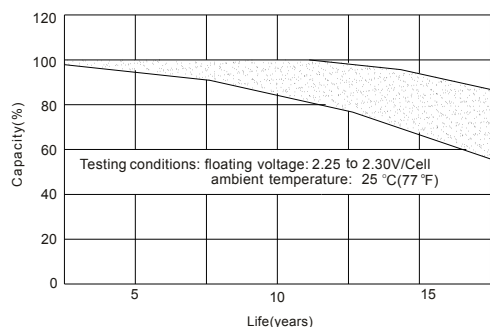
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

