

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 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

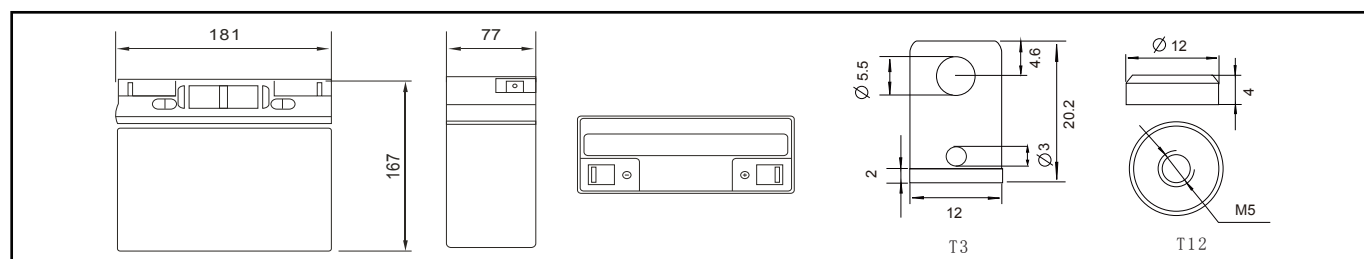
Construction

- * 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)		17Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	181mm (7.12 inches)	77mm (3.03 inches)	158mm (6.22 inches)	167mm (6.57 inches)
Approx Weight	4.70kg (10.36lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate (0.89A, 10.5V)	10 hour rate (1.67A, 10.8V)	5 hour rate (3.16A, 10.5V)	1 hour rate (10.2A, 9.6V)
	17.8Ah	16.7Ah	15.8Ah	10.2Ah
Max. discharge current	255A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 17mΩ			
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 5.1A)		13.50-13.80V	

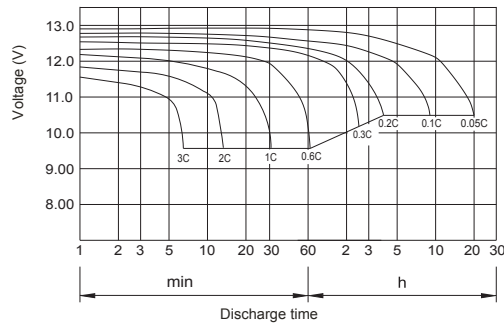
Outer dimension (mm)



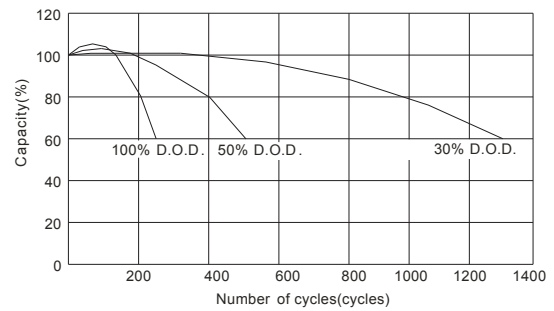
Terminal Type (mm)

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)												
F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	60.100	38.605	29.200	17.700	10.200	7.465	6.592	4.696	3.205	2.166	1.764	0.978
	111.158	73.695	56.356	35.258	20.349	14.906	13.189	9.395	6.412	4.334	3.529	1.957
1.67V	53.356	36.026	27.683	17.322	10.126	7.391	6.559	4.671	3.187	2.148	1.737	0.929
	98.668	68.765	53.470	34.522	20.203	14.762	13.135	9.363	6.388	4.306	3.482	1.863
1.70V	50.508	34.737	27.001	17.171	10.052	7.384	6.543	4.659	3.186	2.126	1.715	0.904
	93.422	66.347	52.192	34.222	20.080	14.753	13.107	9.342	6.388	4.265	3.440	1.814
1.75V	45.712	32.689	25.863	16.868	9.904	7.288	6.502	4.630	3.169	2.120	1.700	0.890
	84.555	62.449	50.045	33.643	19.833	14.576	13.023	9.288	6.357	4.257	3.413	1.787
1.80V	40.841	30.489	24.801	16.490	9.830	7.236	6.461	4.605	3.160	2.102	1.673	0.861
	75.562	58.269	48.064	32.904	19.710	14.508	12.943	9.243	6.343	4.223	3.360	1.729
1.85V	35.970	28.290	23.512	16.036	9.683	7.155	6.403	4.564	3.143	2.075	1.645	0.831
	66.570	54.089	45.613	32.021	19.443	14.381	12.834	9.170	6.314	4.172	3.308	1.672

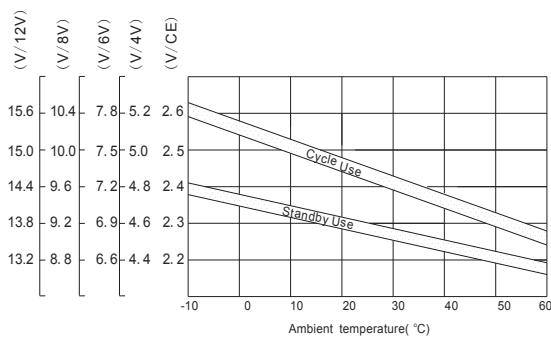
Discharge characteristic Curve



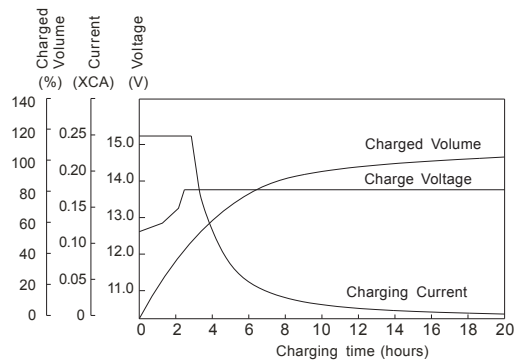
Cycle service life in relation to depth of discharge



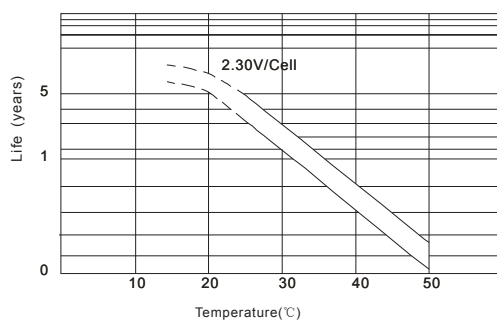
Relationship between charging voltage and temperature



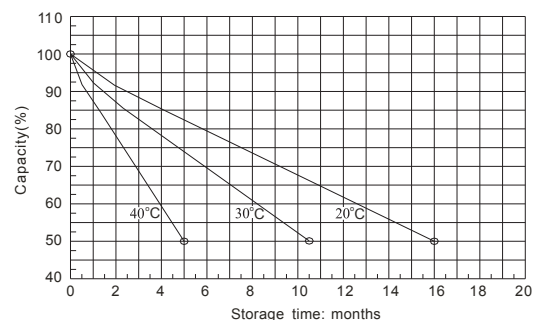
Constant voltage charging characteristic (0.25CA, at 25°C)



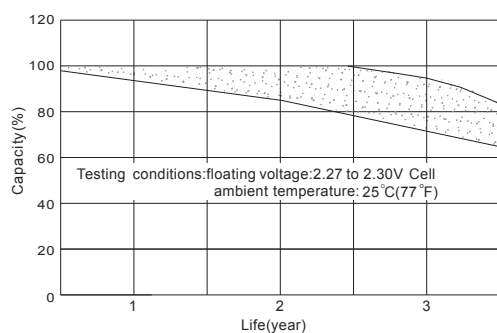
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

