JYC BATTERY MANUFACTURER CO.,LTD.

GP300-2 (2V300Ah)

General Series Battery

JYC General (GP) Series VRLA batteries are designed withAGM (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 ℃ 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

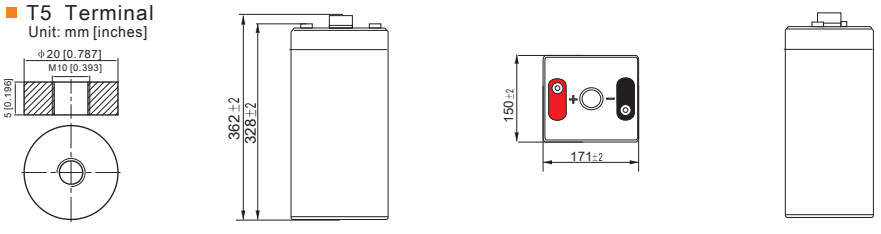
* Positive ..... Lead dioxide
* Electrolyte ..... Sulfuric acid
* Separator ..... Fiber glass
* Container ..... ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
* Negative ..... Lead
* Safety Valve ..... EPDR
* Terminal ..... Copper

Specification

Battery Model	Nominal Voltage		2	
	Rated capacity (10 Hour rate)		300Ah	
	Cells Per battery		1	
Dimension	Length	Width	Height	Total Height
	171mm (6.73 inches)	150mm (5.90 inches)	328mm (12.91 inches)	362mm (14.25 inches)
Approx Weight	17.0kg (37.47lbs) ± 3%			
Capacity @ 25˚C (77 ˚F)	10 hour rate(30A,10.5V)	5 hour rate(53.78A,10.8V)	3 hour rate(78.8A,10.5V)	1 hour rate(180A,9.6V)
	300Ah	268.9Ah	236.4Ah	180Ah
Max.discharge current	2400A (5 Sec.)			
Internal Resistance	Full charged at 25˚C: Approx 0.67mΩ			
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	
	2.35-2.40V (Initial charging current less than 90A)		2.25-2.27V	

Outer dimension (mm)

Terminal Type (mm)

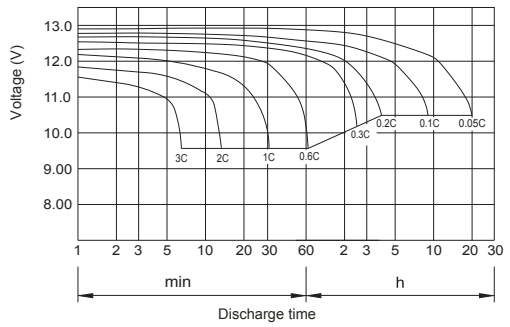


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃ (77 ˚F)

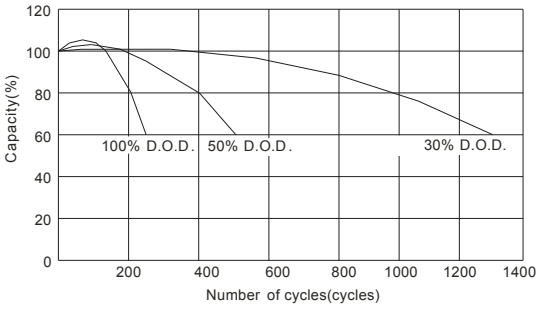
F.V/time	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	180.000	131.739	112.192	79.918	54.540	38.226	31.129	17.088
	359.100	263.043	224.478	159.902	109.124	76.483	62.284	34.190
1.67V	178.696	130.435	111.633	79.499	54.239	37.903	30.645	16.234
	356.522	260.504	223.546	159.350	108.719	75.996	61.444	32.548
1.70V	177.391	130.304	111.354	79.297	54.226	37.524	30.259	15.801
	354.348	260.348	223.080	158.991	108.722	75.272	60.699	31.696
1.75V	174.783	128.609	110.655	78.800	53.939	37.419	30.000	15.550
	350.000	257.217	221.643	158.073	108.201	75.119	60.225	31.217
1.80V	173.478	127.696	109.957	78.381	53.788	37.097	29.516	15.037
	347.826	256.030	220.286	157.310	107.953	74.527	59.298	30.210
1.85V	170.870	126.261	108.979	77.682	53.488	36.613	29.032	14.525
	343.106	253.784	218.423	156.064	107.457	73.629	58.384	29.209

Note: The above datas are average values. (Edition 2020-05)

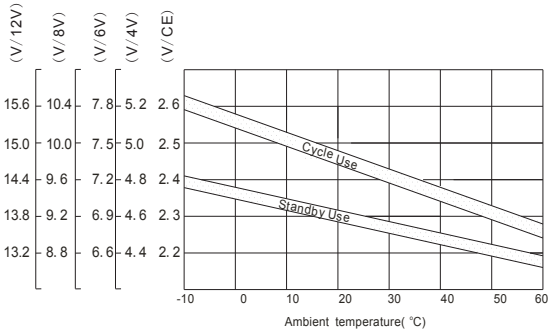
Discharge characteristic Curve



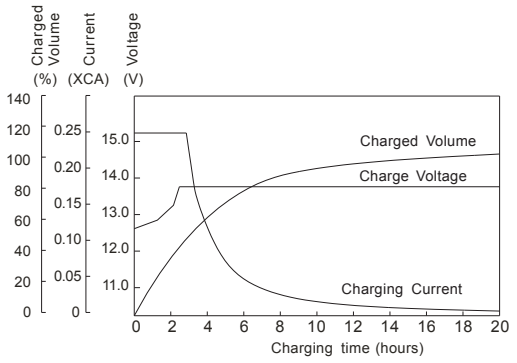
Cycle service life in relation to depth of discharge



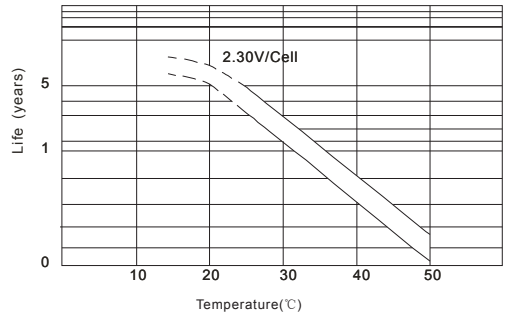
Relationship between charging voltage and temperature



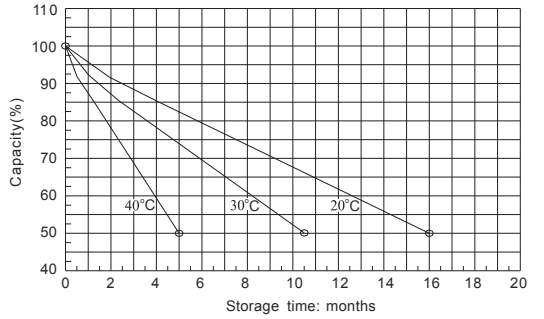
Constant voltage charging characteristic (0.25CA, at 25℃)



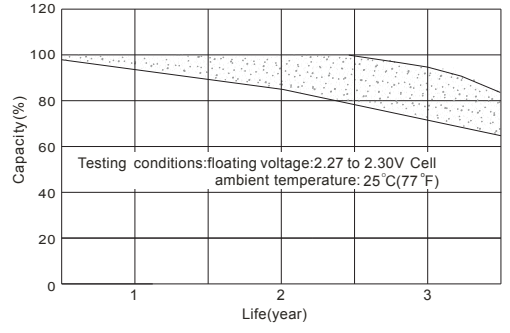
Temperature effects on float life



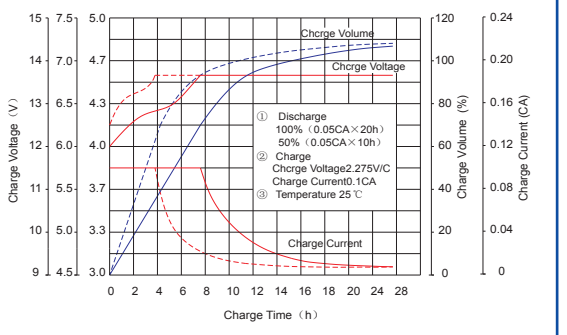
Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use



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