

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 10 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

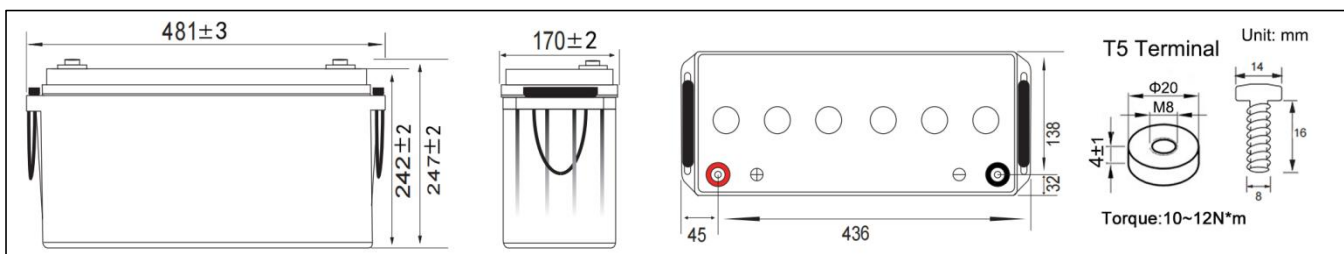
- * Heavy Duty Grid
- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * Long Life and low self-discharge design

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

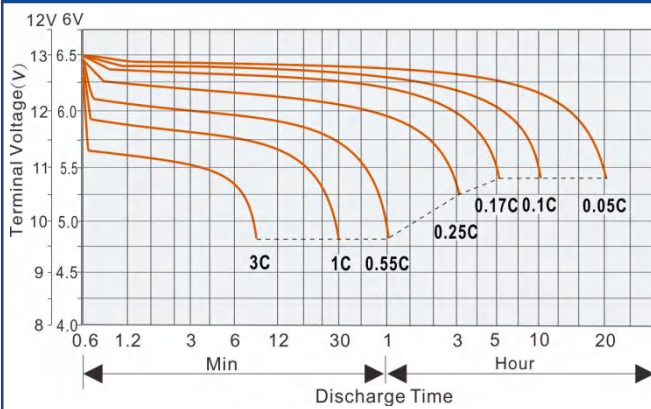
Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (10 Hour rate)		150Ah	
Dimension	Length	Width	Height	Total Height
	481mm (18.93 inches)	170mm (6.69 inches)	242mm (9.52 inches)	247mm (9.72 inches)
Approx Weight	40.6kg(89.51 lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 3.40mΩ			
Maximum Charge Current	45A			
Max.discharge current	1200A (5Sec.)			
Short-circuit current	2000A			
Operating Temperature Range	Nominal Operating Temperature	Discharge	Charge	Storage
	25°C(77°F)	-15°C~ 50°C (5°F~122°F)	-15°C~ 40°C (5°F~104°F)	-15°C~ 40°C (5°F~104°F)
Capacity @ 25°C (77°F)	10 hour rate(15.0A,10.8V)	5 hour rate(25.9A,10.8V)	3 hour rate(40.0A,10.2V)	1 hour rate(97.4A,9.6V)
	150.0Ah	129.5Ah	120.0Ah	97.4Ah
Capacity affected by Temp.(10HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Charge method	Float Charging Voltage		Equalization Charging Voltage	
	13.5 ~ 13.8 VDC/Unit at 25°C (77°F)		14.4~ 15.0 VDC/Unit at 25°C (77°F)	



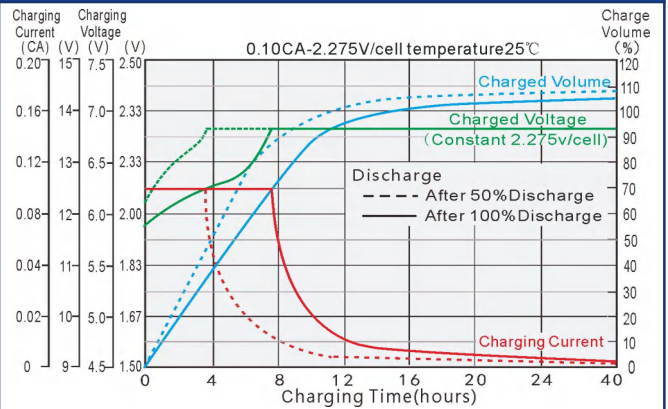
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	300	245	199	176	143	86.3	49.9	37.9	25.5	17.2	14.7	7.73
	W	565	463	380	337	275	166.6	97.5	74.9	50.4	34.2	29.1	15.69
1.80V/cell	A	330	268	214	186	150	89.2	51.6	38.7	25.9	17.5	15.0	7.86
	W	615	500	404	352	287	172.8	100.2	76.1	51.1	34.6	29.4	15.78
1.75V/cell	A	360	289	227	195	156	91.8	52.8	39.5	26.2	17.7	15.2	7.95
	W	660	535	425	366	297	177.4	102.3	77.2	51.6	35.0	29.7	15.88
1.70V/cell	A	390	310	238	203	163	93.9	53.7	40.0	26.6	17.9	15.4	8.02
	W	695	565	443	380	305	179.7	103.3	77.8	52.1	35.3	30.0	15.94
1.67V/cell	A	400	318	245	209	166	95.2	54.2	40.4	26.9	18.1	15.5	8.06
	W	708	575	450	387	308	181.5	103.9	78.6	52.4	35.6	30.2	16.02
1.60V/cell	A	425	335	260	218	171	97.4	55.1	41.0	27.3	18.4	15.6	8.15
	W	745	595	470	400	315	182.8	105.1	79.5	53.0	36.0	30.5	16.11

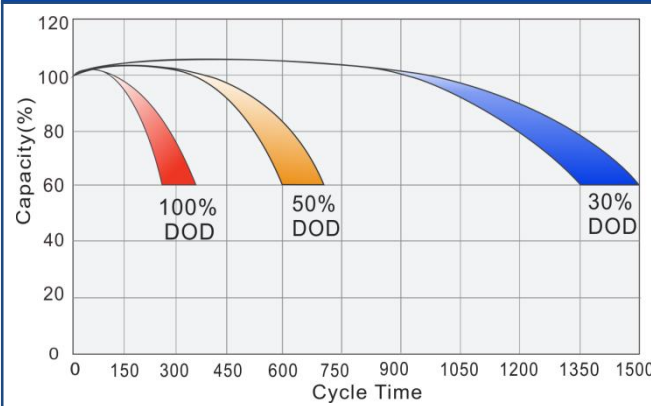
Discharge characteristic curve (25°C/77°F)



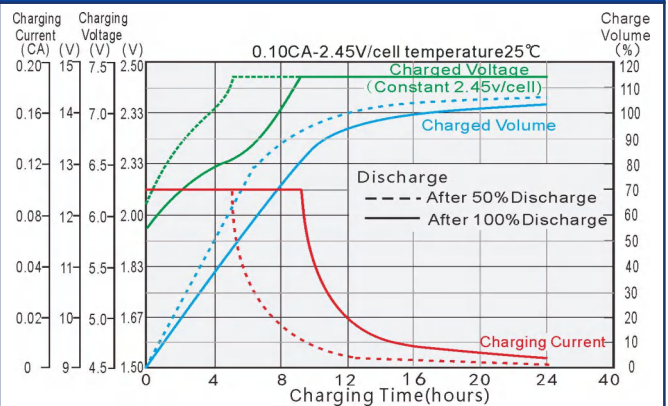
Charging characteristic curve of floating charge (25°C/77°F)



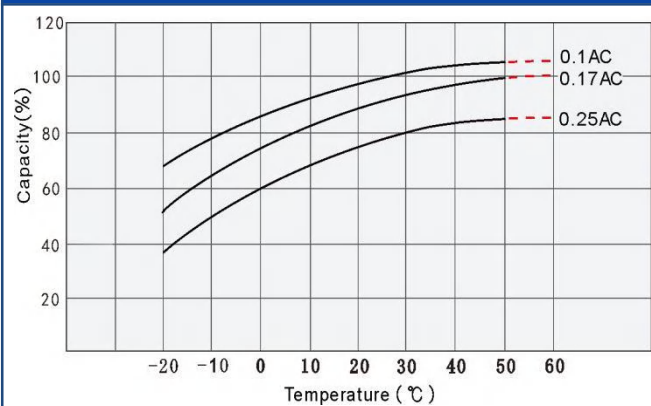
Cycle service life in relation to depth of discharge



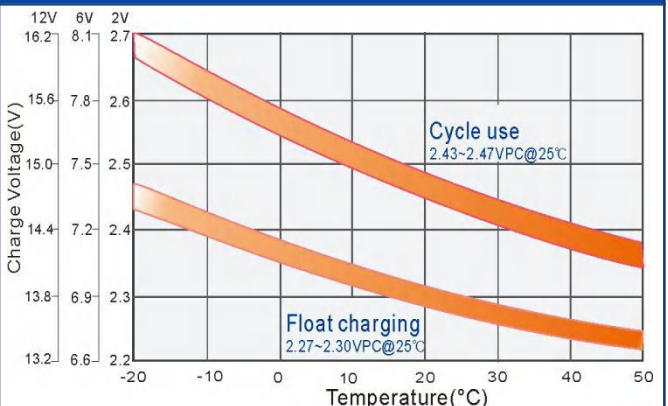
Cyclic charging characteristic curve (25°C/77°F)



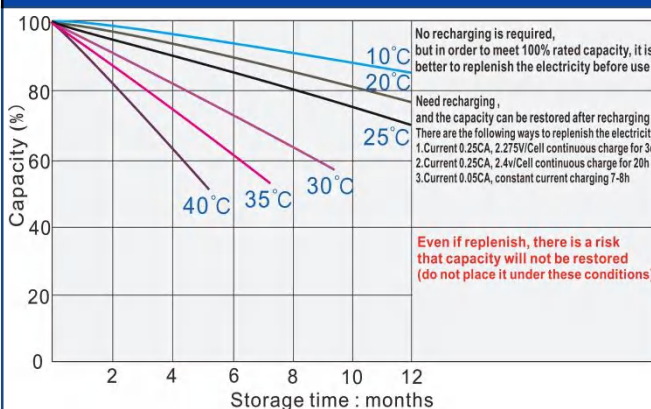
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self Discharge Characteristics



Temperature vs Float Life

