

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

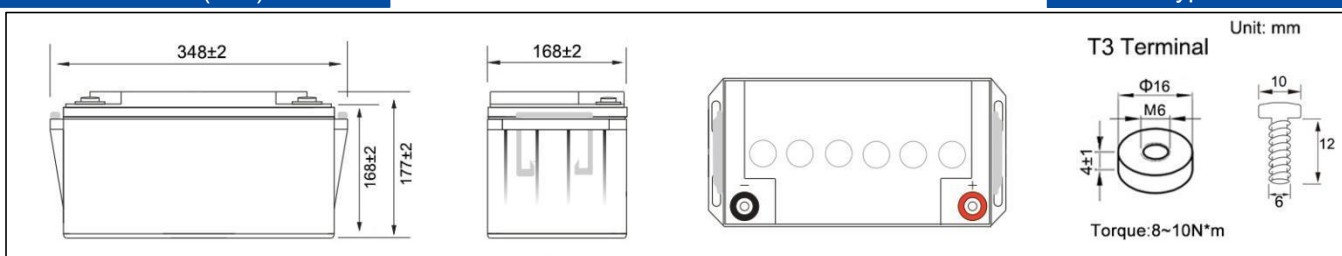
Construction

- * 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)		65Ah	
Dimension	Length	Width	Height	Total Height
	348mm (13.70 inches)	168mm (6.61 inches)	177mm (6.97 inches)	177mm (6.97 inches)
Approx Weight	19.1kg(4210lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F):Approx 5.80mΩ			
Maximum Charge Current	19.5A			
Max.discharge current	650A (5Sec.)			
Short-circuit current	1140A			
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(6.52A, 10.8V)	5 hour rate(11.60A, 10.8V)	3 hour rate(17.55A, 10.2V)	1 hour rate(41.6A, 9.6V)
	65.2Ah	58.0Ah	52.65Ah	41.60Ah
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)	

Outer dimension (mm)

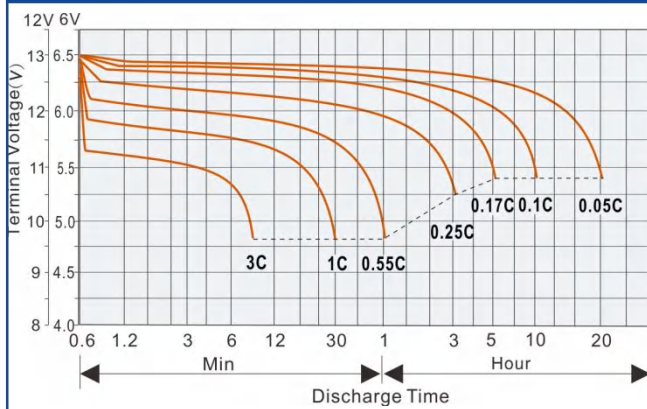


Terminal Type

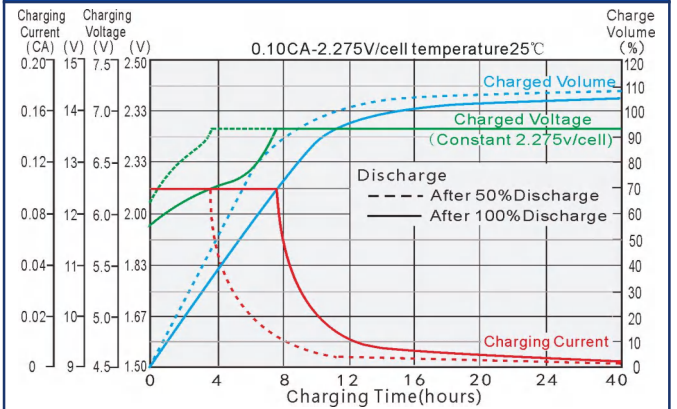
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	195	145	119	101	75.0	57.0	47.0	34.50	26.65	19.90	15.70	13.30
	W	371	277	228	195	144.9	110.8	91.8	67.55	52.39	39.24	31.08	26.49
1.80V/cell	A	224	162	129	107	79.0	59.5	48.6	35.50	27.56	20.40	16.00	13.52
	W	423	307	245	206	151.9	115.0	94.2	68.90	53.81	40.03	31.52	26.80
1.75V/cell	A	251	178	138	112	82.5	61.5	50.1	36.40	28.42	20.88	16.29	13.72
	W	469	335	261	214	157.6	117.9	96.4	70.22	55.15	40.72	31.94	27.06
1.70V/cell	A	276	192	145	116	85.5	63.3	51.5	37.20	29.23	21.34	16.57	13.91
	W	507	356	270	219	161.6	120.2	98.1	71.10	56.20	41.27	32.28	27.26
1.67V/cell	A	290	200	149	118	87.0	64.3	52.2	37.50	29.52	21.54	16.70	13.99
	W	532	369	275	221	163.1	121.2	98.9	71.35	56.43	41.44	32.38	27.31
1.60V/cell	A	320	218	156	122	89.0	66.0	53.5	38.00	30.00	21.80	16.90	14.12
	W	564	391	281	223	163.5	122.0	100.5	71.62	56.99	41.61	32.46	27.43

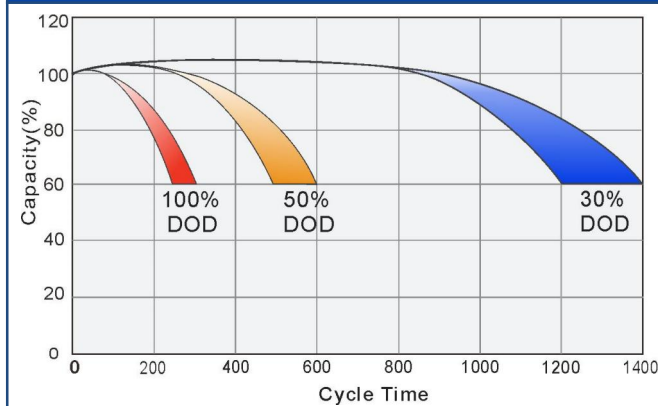
Discharge characteristic curve (25°C/77°F)



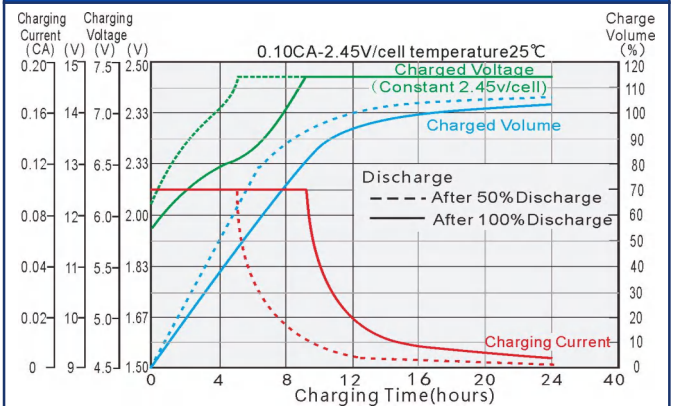
Charging characteristic curve of floating charge (25°C/77°F)



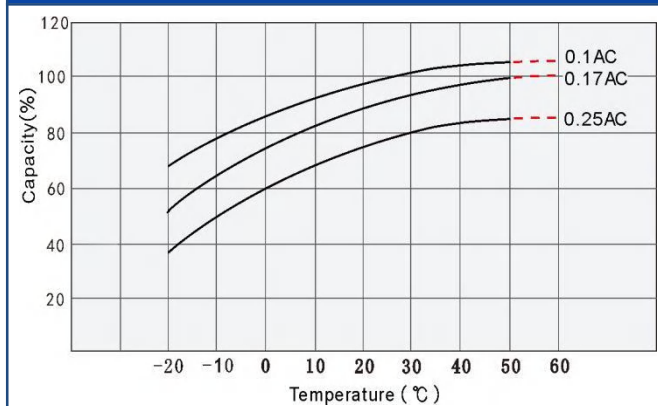
Cycle service life in relation to depth of discharge



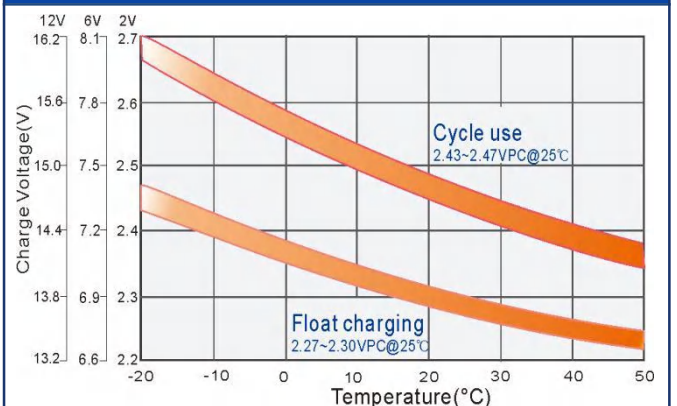
Cyclic charging characteristic curve (25°C/77°F)



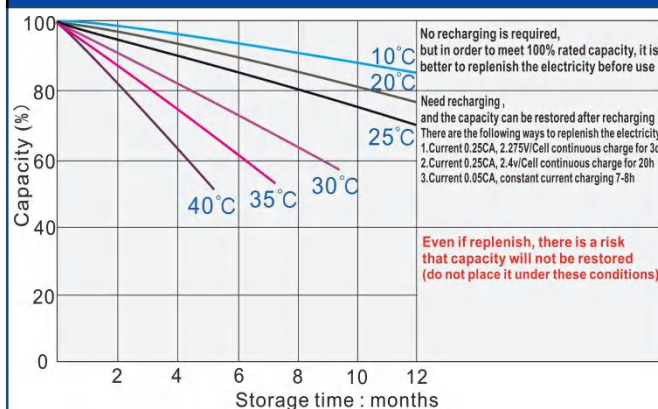
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

