JP55-12

(Valve Regulated Lead Acid)

JP Series

JP Series VRLA Battery

JP series is a general purpose battery,with up-date AGM valve regulated technology and high purity raw material,this series battery has reliable standby service life. this series is highly suited for security ,alarm systems, UPS/EPS, medical equipment emergency light systems ,switchgear,CATV, telecommunication systems applications.

Design for Frequent Cyclic Charge and Discharge Applications Under Extreme Environments.

Design Life
Up to 12 years in standby service at 25°C(77°F)

Operating Temperature Range
Nominal Operating Temperature:25°C(77°F)
Discharge:-15°C ~55°C(5°F~131°F)
Charge:-15°C ~45°C(5°F~113°F)
Storage:-15°C ~45°C(5°F~113°F)

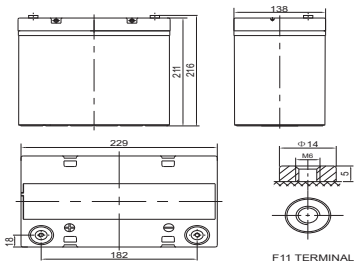
Float Charging Voltage
13.5~13.8V DC/Unit at 25°C(77°F)

Equlization Charging Voltage
14.4~14.7V DC/Unit at 25°C(77°F)

Self Discharge
Less than 10% after 90 days, can be stored up to 6 months at 25°C(77°F);
Fully recharging is required before usage,and charged sooner if stored
At higher temperature than 25°C(77°F).

Specification

Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	55Ah @10hr-rate to 1.80V per cell @25°C		
Weight	Approx.16.6Kg(36.5lbs)		
Maximum Discharge Current	500A(5sec)		
Internal Resistance	Approx.0.0058Ohm(fully charged @25°C)		
Short Circuit Current	2050A		
Maximum Charge Current	13.75A		
Terminal types	Femal Copper Insert M6		
Terminal tightening torque	8~10N.m		
Container Material	ABS(UL)& Flame Retardant(94-V0) available upon request		
Dimensions	Length(L)	229±2.0mm	9.02±0.08inch
	Width(W)	138±2.0mm	5.43±0.08inch
	Container Height(H)	211±1.0mm	8.31±0.04inch
	Overall Height(H)	216±1.0mm	8.50±0.04inch



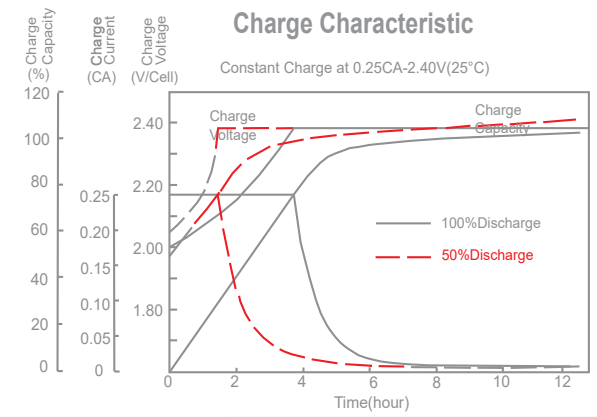
Constant Current Discharge Characteristics: Amps(25°C)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	165	122	101	61.9	37.2	21.6	15.6	12.4	10.4	7.07	5.83	3.14
1.67V	147	112	94.7	59.2	36.2	21.2	15.4	12.3	10.2	6.98	5.76	3.07
1.70V	131	102	89.5	57.0	35.4	20.9	15.2	12.1	10.1	6.89	5.69	3.00
1.75V	114	94.7	83.1	55.0	34.6	20.6	15.0	12.0	10.0	6.79	5.61	2.94
1.80V	101	86.1	77.5	52.6	33.5	20.1	14.7	11.7	9.76	6.63	5.50	2.89
1.85V	86.5	77.5	70.6	49.6	32.0	19.3	14.2	11.4	9.53	6.49	5.36	2.82

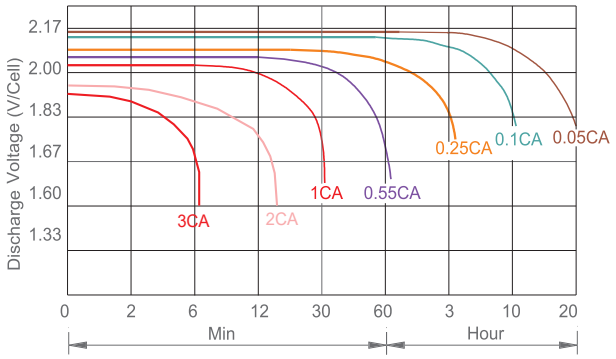
Constant Power Discharge Characteristics:W/cell(25°C)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	291	219	183	114	69.3	40.6	29.4	23.6	19.7	13.6	11.3	6.10
1.67V	263	204	174	110	67.9	40.1	29.3	23.4	19.6	13.5	11.2	6.00
1.70V	237	187	166	107	66.8	39.9	29.1	23.3	19.5	13.4	11.1	5.91
1.75V	209	176	156	104	65.9	39.5	28.9	23.1	19.4	13.3	11.0	5.83
1.80V	187	162	147	100	64.3	39.0	28.6	22.9	19.2	13.1	10.9	5.77
1.85V	163	147	135	95.5	62.2	37.8	27.9	22.5	18.8	12.9	10.7	5.67

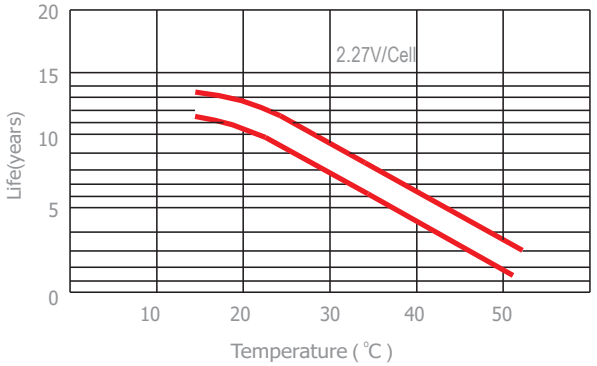
Charge Characteristic



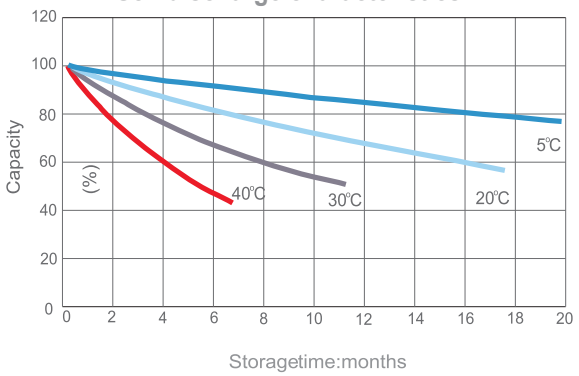
Discharge Characteristics(25°C)



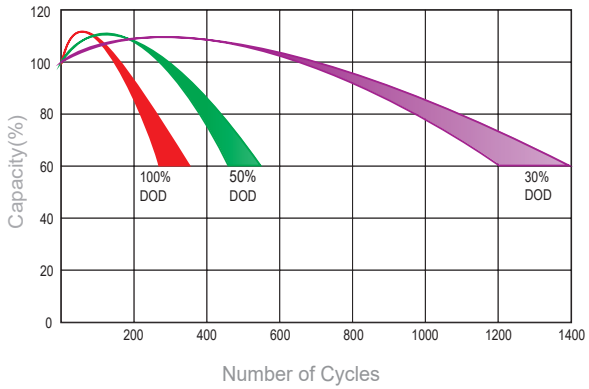
Temperature vs Float Life



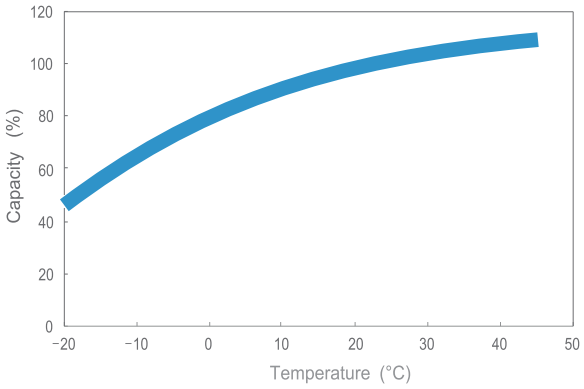
Self discharge characteristics



Cycle Life In Relation To Depth Of Discharge



Capacity vs Temperature



Discharge Current I (A)	I ≤0.08C	0.08C ≤I<0.2C	0.2C ≤I<0.6C	0.6C ≤I<1.0C	I≥1.0C
Final of Voltage	≥1.85Vpc	≥1.80Vpc	≥1.75Vpc	≥1.70Vpc	≥1.60Vpc

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