

### High Rate Series Battery

JYC High rate Series VRLA batteries are designed with low internal resistance AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for High rate UPS and power backup system. High rate series Batteries are the special design batteries with 8 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
- \*Power tools
- \*Alarm system
- \*Security system
- \*Fire and Security System. etc.

### General Features

- \*Safety Sealing
- \*Non-spillable construction
- \*High Reliability and Stability
- \*Sealed and Maintenance-free
- \*Safety and Quality certification
- \*Long Life and low self-discharge design
- \*30% increased power output at 15M backup time.



### Construction

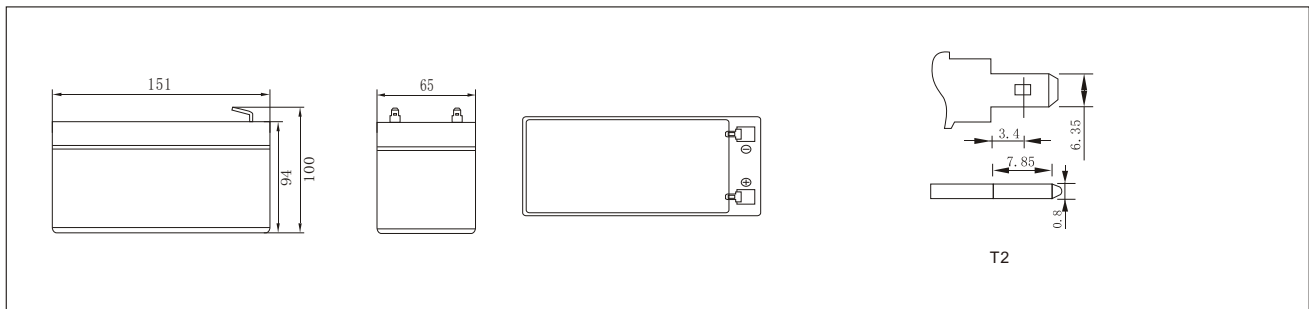
- \*Positive .....Lead dioxide
- \*Electrolyte .....Sulfuric acid
- \*Separator .....Fiber glass
- \*Container .....ABS(UL94-HB), Flammability Resistance of UL94-V0 can be available upon request
- \*Negative .....Lead
- \*Safety Valve .....EPDR
- \*Terminal .....Copper

### Specification

Battery Model	Nominal Voltage		12V	
	Capacity(15 minutes rate to 1.67V/Cell)		26W	
	Rated capacity(20 Hour rate)		8.0Ah	
Dimensions	Length	Width	Height	Total Height
	151mm(5.94 inches)	65mm(2.56 inches)	94mm(3.70 inches)	100mm(3.94 inches)
Approx Weight	2.20kg(4.84lbs) ±3%			
Capacity 25°C (77°F)	30 Min rate(1.70V)		15 Min rate(1.67V)	5 Min rate(1.6V)
	16.35W/cell		26W/cell	51.85W/cell
Max.discharge current	80A(5Sec.)			
Internal Resistance	Full charged at 25 °C: Approx 21mΩ			
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 at 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	
	14.60-14.80V (Initial charging current less than 2.1A)		13.70-13.90V	

### Outer dimensions (mm)

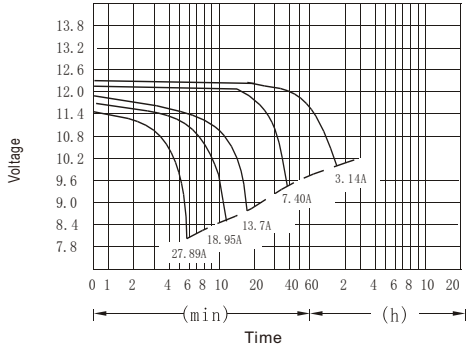
### Terminal Type (mm)



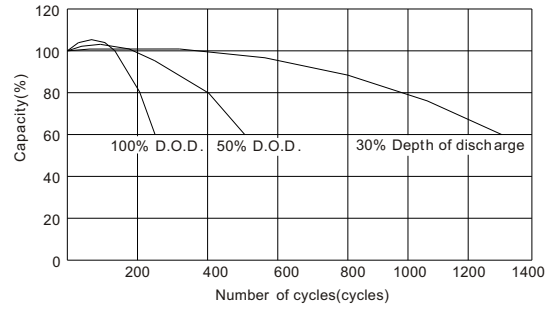
Constant Power(Watt/Cell) Discharge at 25°C (77°F)								
F.V/Time	5min	10min	15min	30min	60min	3H	10H	20H
1.60V	51.90	36.01	27.55	16.56	9.59	4.10	1.66	0.91
1.67V	48.85	33.89	26.00	16.49	9.07	3.91	1.58	0.83
1.70V	47.58	32.65	25.57	16.35	9.21	3.88	1.53	0.82
1.75V	44.05	31.10	24.41	15.87	9.07	3.79	1.47	0.79
1.80V	42.12	29.67	23.65	15.41	8.65	3.61	1.44	0.77
1.85V	38.11	25.04	20.58	14.11	7.98	3.55	1.38	0.73

Constant Current(Amp) Discharge at 25°C (77°F)								
F.V/Time	5min	10min	15min	30min	60min	3H	10H	20H
1.60V	27.89	18.98	14.36	8.49	4.89	2.08	0.81	0.41
1.67V	26.68	18.35	13.71	8.15	4.87	2.05	0.76	0.41
1.70V	25.74	17.99	13.17	7.98	4.84	2.03	0.75	0.41
1.75V	24.15	16.89	12.84	7.75	4.81	2.01	0.74	0.40
1.80V	23.38	16.13	12.13	7.35	4.65	1.94	0.73	0.40
1.85V	20.12	14.65	10.27	7.11	4.34	1.85	0.71	0.39

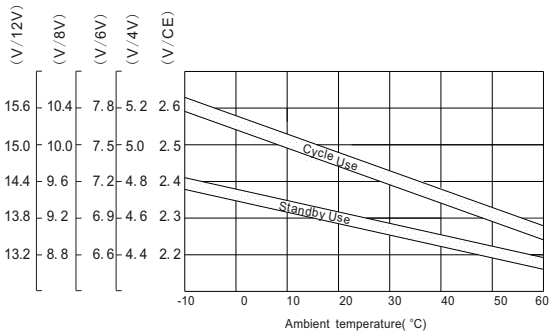
### Discharge characteristic Curve



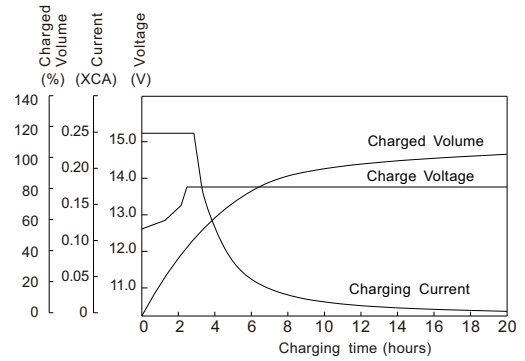
### Cycle service life in relation to depth of discharge



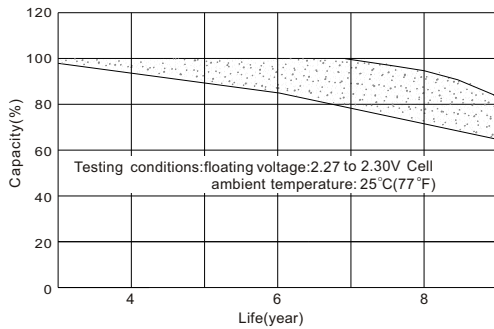
### Relationship between charging voltage and temperature



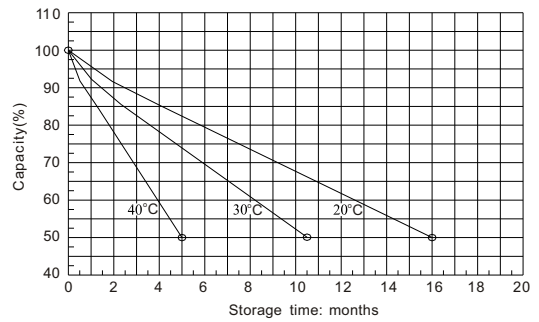
### Constant voltage charging characteristic (0.25CA, at 25°C)



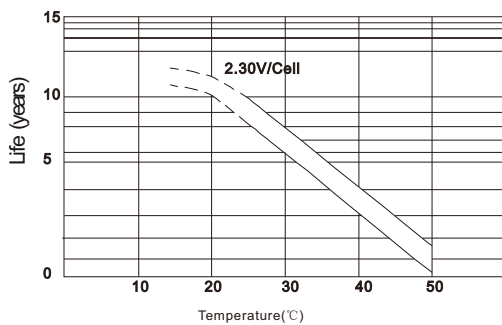
### Life characteristics of standby use



### Self-discharge characteristic



### Temperature effects on float life



### Charge characteristic Curve for standby use

