

High Rate Series Battery

JYC HR (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 10 years floating design life at 25°C, Meet with IEC,BS,JIS and Eurobat standard,UL(MH62092),CE approved.

Application

- * Data center
- * High power backup supply
- * Telecommunication systems
- * Alarm system

- * UPS /EPS(High rate)
- * Communication equipment
- * Power tools
- * Fire and Security System



General Features

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

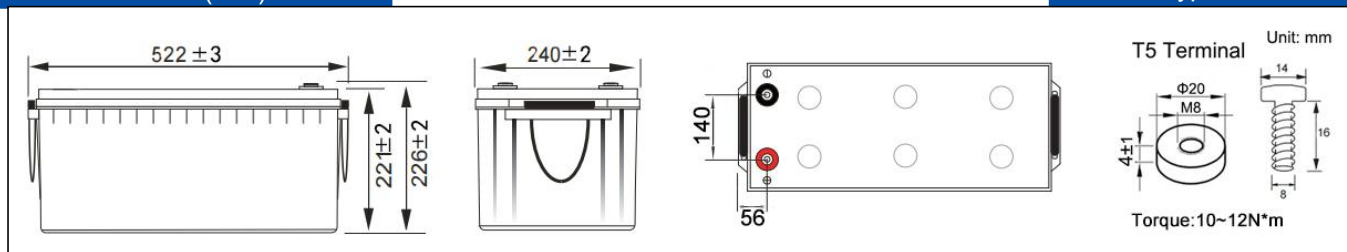
Construction

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

Specification

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Capacity (15minutes rate to 1.67V/cell)		800W	
	Rated capacity 10 Hour rate)		220Ah	
Capacity @ 25°C (77°F)	15min rate(1.67V)	3 hour rate(63.4A, 1.75V)	5 hour rate(40.3A, 1.80V)	10 hour rate(22.0A, 1.80V)
	800W	190.2Ah	201.5Ah	220.0Ah
Dimension	Length	Width	Height	Total Height
	522mm (20.55 inches)	240mm (9.45 inches)	221mm (8.70 inches)	226mm (8.90 inches)
Approx Weight	63.5kg(139.99 lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F):Approx 1.89mΩ			
Maximum Charge Current	60.0A			
Max.discharge current	2200A (5Sec.)			
Short-circuit current	3800A			
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 affected by Temp.(20HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Charge method at 25°C(77°F)	Float Charging Voltage	Equalization Charging Voltage	Cycle Use Voltage	
	13.5~13.8 VDC (-3mV/cell/°C)	14.1~14.4 VDC (-4mV/cell/°C)	14.4~15.0 VDC (-5mV/cell/°C)	

Outer dimension (mm)



Terminal Type

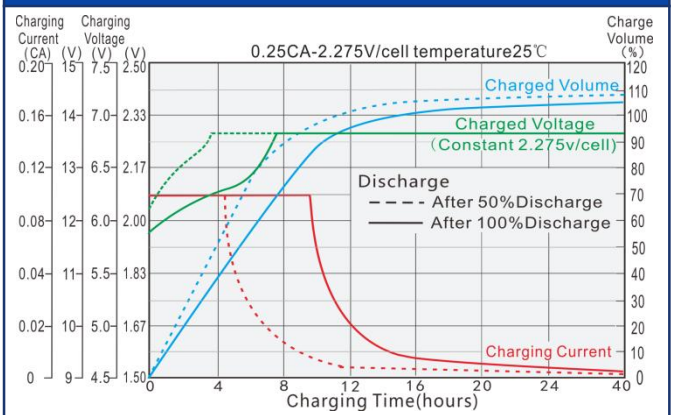
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	A 536	392	332	288	220	170	137	102.0	83.5	60.5	48.6	39.4	26.8	21.5
	W 1005	745	631	550	420	326	262	196.0	161.1	117.2	94.8	77.6	53.1	43.1
1.80V/cell	A 605	437	363	308	232	180	143	105.8	85.9	62.0	49.7	40.3	27.4	22.0
	W 1120	820	683	581	437	339	271	202.0	164.8	119.4	96.1	78.8	53.9	43.7
1.75V/cell	A 668	479	390	323	243	188	148	109.2	88.0	63.4	50.6	41.1	27.8	22.4
	W 1225	894	733	608	453	351	278	207.0	167.8	121.3	97.2	79.7	54.5	44.2
1.70V/cell	A 725	520	417	338	252	194	152	112.2	89.9	64.6	51.3	41.7	28.1	22.7
	W 1310	956	776	629	468	361	284	211.0	170.4	122.9	98.2	80.5	55.0	44.6
1.67V/cell	A 755	541	431	346	257	197	154	113.2	90.6	65.0	51.6	41.9	28.2	22.8
	W 1355	990	800	645	475	366	287	212.0	171.3	123.5	98.6	80.8	55.2	44.7
1.60V/cell	A 808	575	450	362	265	202	157	115.0	92.0	65.8	52.1	42.3	28.5	23.0
	W 1424	1040	820	664	488	374	292	215.0	173.0	124.5	99.2	81.3	55.4	44.9

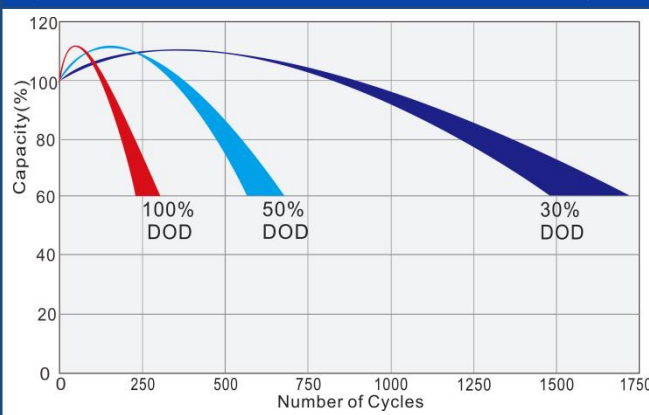
Discharge characteristic curve (25°C/77°F)



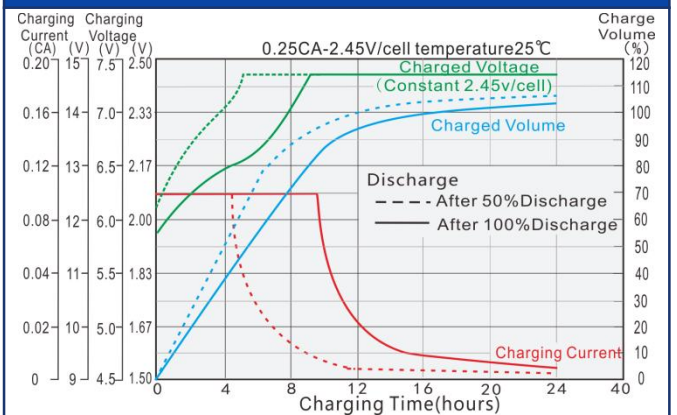
Charging characteristic curve of floating charge (25°C/77°F)



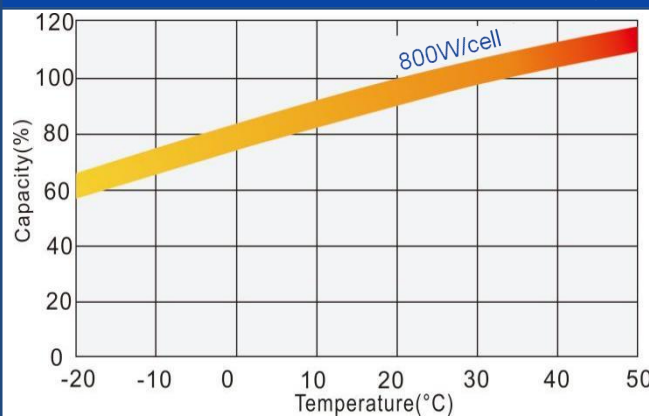
Cycle service life in relation to depth of discharge



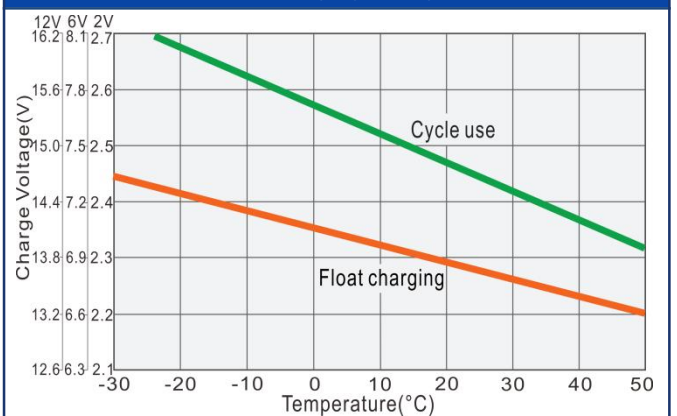
Cyclic charging characteristic curve (25°C/77°F)



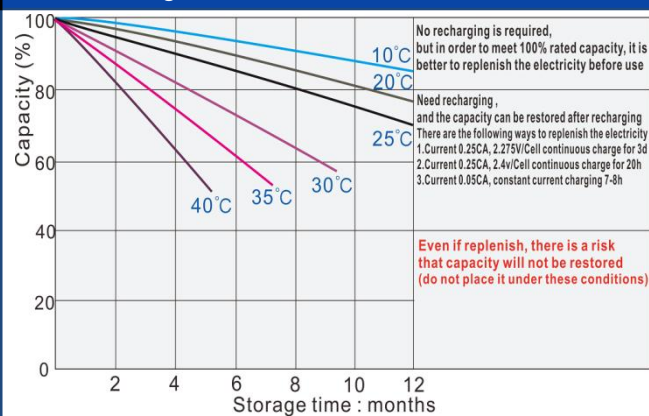
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

