

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

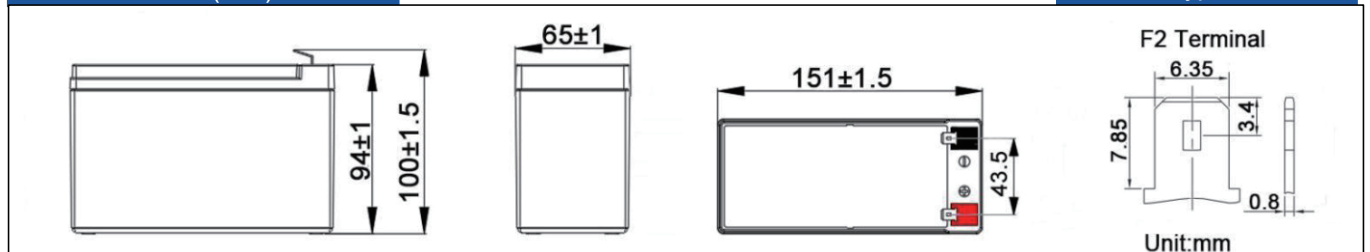
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Container ABS(UL94-HB)/Flame Retardant ABS (UL94-V0)
- * Negative Lead
- * Safety Valve EPDM
- * Terminal Copper



Specification

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Capacity (15minutes rate to 1.67V/cell)		28W	
	Rated capacity (20 Hour rate)		8.5Ah	
	1,70Vdc 10hr		8Ah	
Capacity @ 25°C (77°F)	15min rate(1.67V)	1 hour rate 5.20A,1.60V)	3 hour rate(2.145A,1.70V)	20 hour rate(0.427A,1.75V)
	28.0W	5.20Ah	6.435Ah	8.54Ah
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	65mm (2.56 inches)	94mm (3.70 inches)	100mm (3.94 inches)
Approx Weight	2.26kg(4.98 lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F):Approx 20.2(mΩ/25°C± 15%)			
Maximum Charge Current	2.55A			
Max.discharge current	127.5A (5Sec.)			
Short-circuit current	360A			
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)

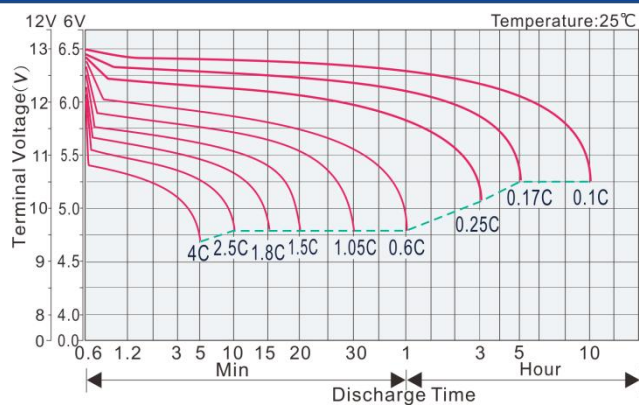


Terminal Type

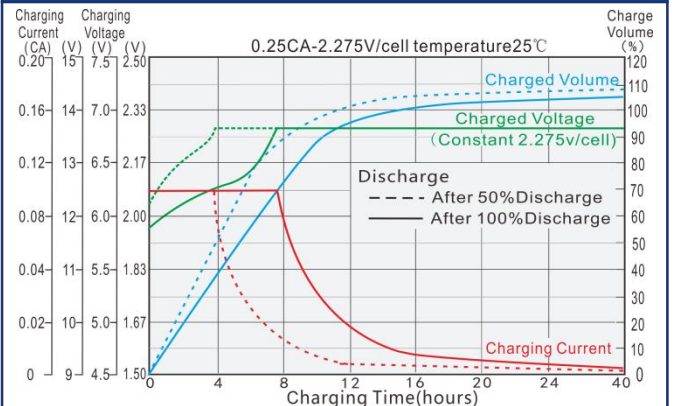
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	8h	10h	20h
1.85V/cell	A 35.0	25.5	16.4	12.8	10.65	8.02	5.95	4.85	3.57	2.85	2.045	1.350	0.924	0.770	0.414
	W 66.3	48.4	31.7	25.1	20.96	15.85	11.80	9.64	7.12	5.69	4.090	2.709	1.860	1.555	0.839
1.80V/cell	A 37.4	27.3	17.3	13.3	10.97	8.21	6.08	4.93	3.64	2.91	2.080	1.372	0.937	0.781	0.420
	W 70.3	51.3	33.2	25.9	21.51	16.18	12.02	9.78	7.24	5.79	4.150	2.746	1.883	1.574	0.850
1.75V/cell	A 39.9	29.1	18.1	13.8	11.28	8.40	6.20	5.00	3.70	2.96	2.113	1.393	0.951	0.794	0.427
	W 74.4	54.3	34.6	26.8	22.06	16.51	12.23	9.89	7.34	5.88	4.207	2.783	1.907	1.597	0.862
1.70V/cell	A 42.2	30.8	18.9	14.3	11.58	8.58	6.31	5.08	3.76	3.00	2.145	1.413	0.960	0.800	0.430
	W 78.0	56.9	35.9	27.7	22.58	16.82	12.42	10.03	7.44	5.95	4.262	2.818	1.922	1.606	0.867
1.67V/cell	A 43.3	31.6	19.3	14.5	11.73	8.67	6.36	5.12	3.79	3.02	2.162	1.421	0.964	0.802	0.431
	W 79.8	58.2	36.5	28.0	22.84	16.97	12.50	10.09	7.49	5.98	4.292	2.831	1.928	1.609	0.868
1.60V/cell	A 45.2	33.0	20.0	14.9	12.00	8.83	6.45	5.20	3.83	3.05	2.190	1.435	0.970	0.806	0.433
	W 82.7	60.3	37.7	28.7	23.32	17.26	12.66	10.23	7.56	6.03	4.341	2.855	1.938	1.615	0.871

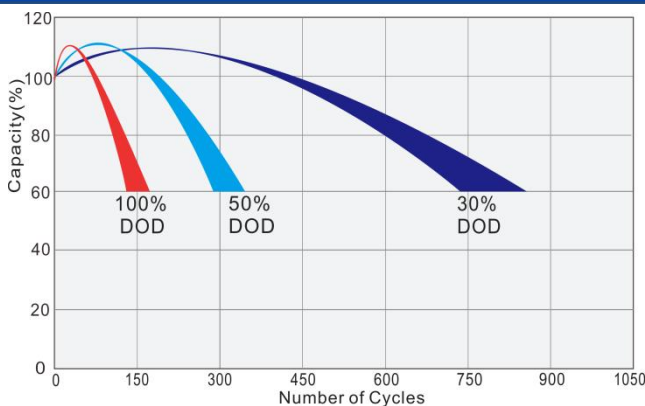
Discharge characteristic curve (25°C/77°F)



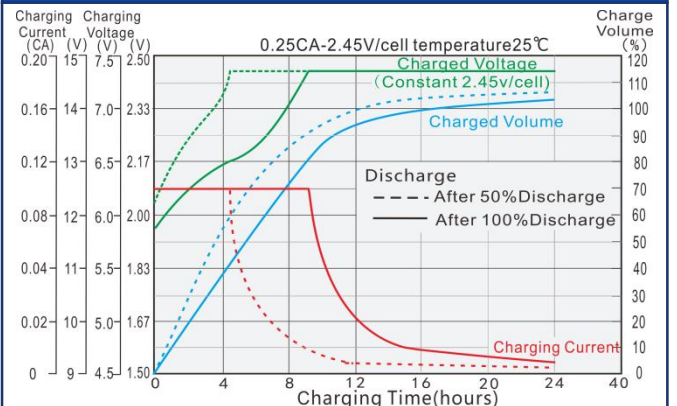
Charging characteristic curve of floating charge (25°C/77°F)



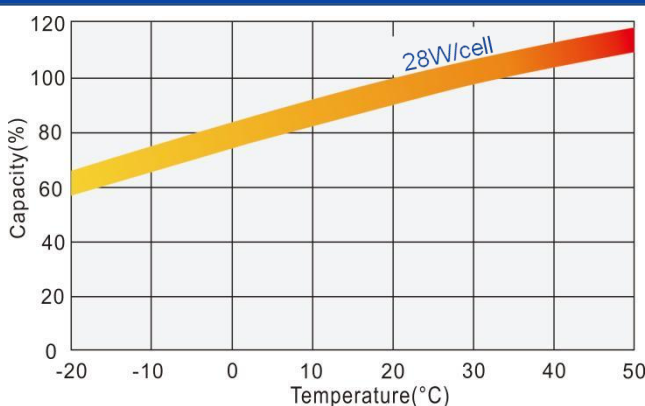
Cycle service life in relation to depth of discharge



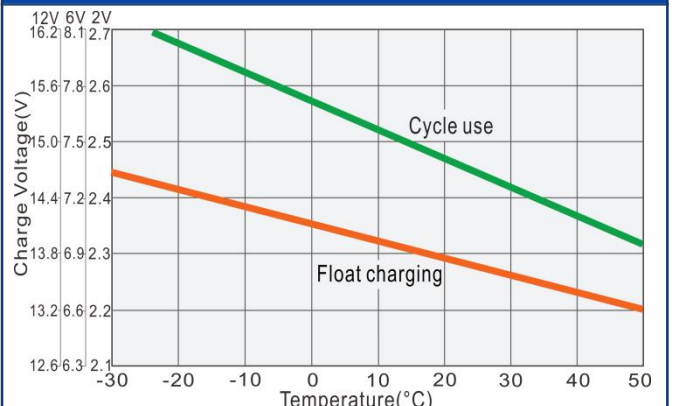
Cyclic charging characteristic curve (25°C/77°F)



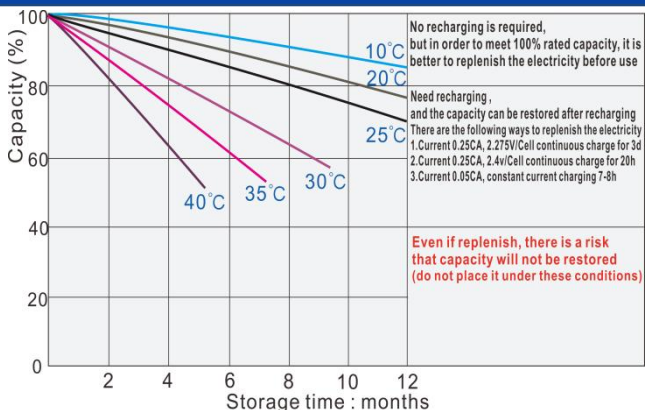
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

