

ELX HR9-12 / 12V 9Ah

HR series – VRLA battery



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 5 years floating design life at 25°C Meet with IEC, BS, JIS and Eurobat standard.



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

Construction

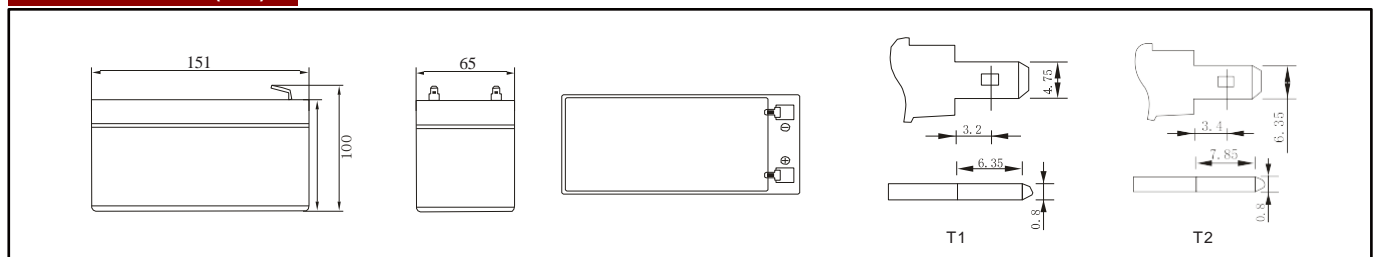
- * Positive Lead dioxide
- * Negative Lead
- * Electrolyte Sulfuric acid
- * Safety Valve EPDR
- * Separator Fiber glass
- * Terminal Copper
- * Container ABS(UL94-HB), Flammability Resistance of UL94-V0 can be available upon request

- * Long Life and low self-discharge design
- * 30% increased power output at 15M backup time.

Specification

Battery Model	Nominal Voltage		12V	
	Cells Per Battery		6	
	Capacity (15 minutes rate to 1.67V/Cell)		34W	
	Rated capacity (20 Hour rate)		9Ah	
Dimensions	Length	Width	Height	Total Height
	151mm (5.94 inches)	65mm (2.56 inches)	94mm (3.70 inches)	100mm (3.94 inches)
Approx Weight	2.35kg (5.18lbs) ± 4%			
Capacity @ 25°C (77°F)	30 Min rate(10.2V)		15 Min rate (10.02V)	5 Min rate (9.6V)
	133.2W		229.8W	412.8W
Max. discharge current	90A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 20.5mΩ			
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 @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	
	14.1-14.4V (Initial charging current less than 2.7A)		13.50-13.80V	

Outer dimensions (mm)

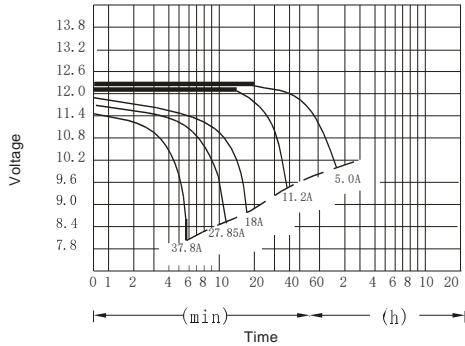


Terminal Type (mm)

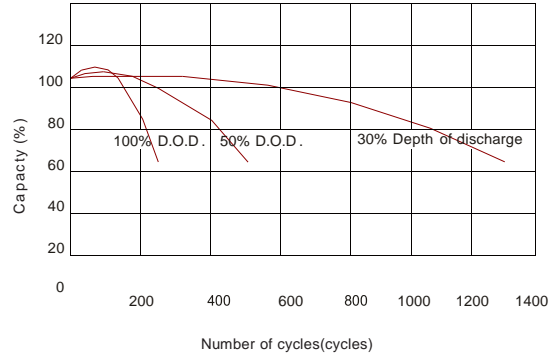
Constant Power(Watt) Discharge at 25°C (77°F)								
F.V/T	3min	5min	8min	10min	15min	20min	30min	60min
9.60V	474.5	412.8	348.1	309.2	240.1	141.5	141.1	82.8
10.02V	443.4	385.9	329.6	292.8	229.9	181.5	135.8	79.2
10.20V	430.2	373.6	321.5	285.8	225.8	176.6	133.4	78.0
10.50V	411.1	357.4	309.7	271.5	217.9	173.4	131.2	78.0
10.80V	392.4	341.6	297.7	257.6	210.6	171.1	129.3	77.6
11.10V	373.7	324.8	285.6	243.3	201.8	168.9	127.5	76.5

Constant Current(Amp) Discharge at 25°C (77°F)								
F.V/T	3min	5min	8min	10min	15min	20min	30min	60min
9.60V	43.66	37.90	31.55	27.84	21.51	17.41	12.75	7.44
10.02V	40.35	35.10	29.60	26.11	20.40	16.25	12.15	7.10
10.20V	38.70	33.62	28.55	25.18	19.77	15.61	11.81	6.89
10.50V	36.55	31.78	27.12	23.63	18.84	15.18	11.48	6.77
10.80V	34.38	29.89	25.70	22.08	17.90	14.77	11.12	6.65
11.10V	32.05	27.90	24.15	20.47	16.88	14.21	10.71	6.48

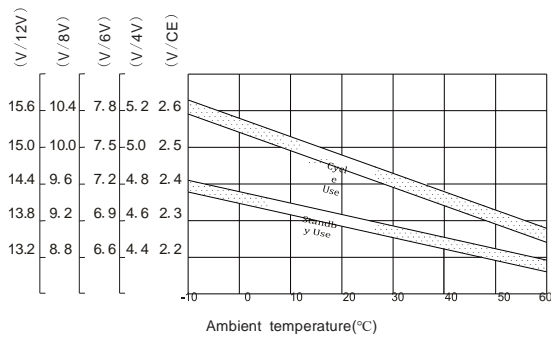
Discharge characteristic Curve



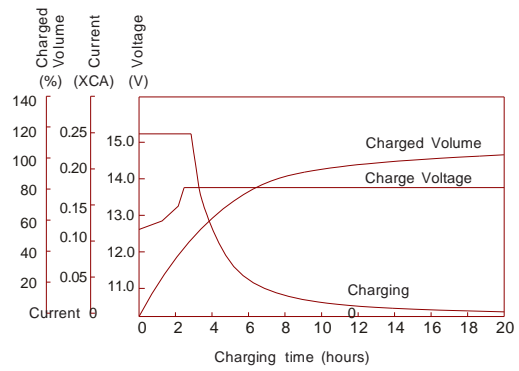
Cycle service life in relation to depth of discharge



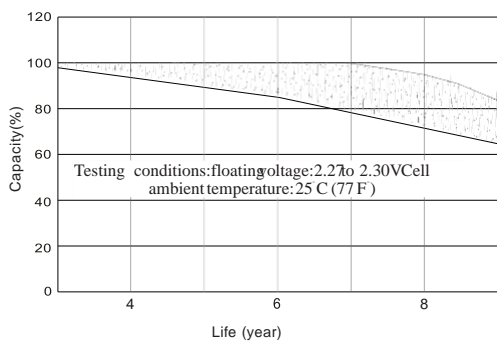
Relationship between charging voltage and temperature



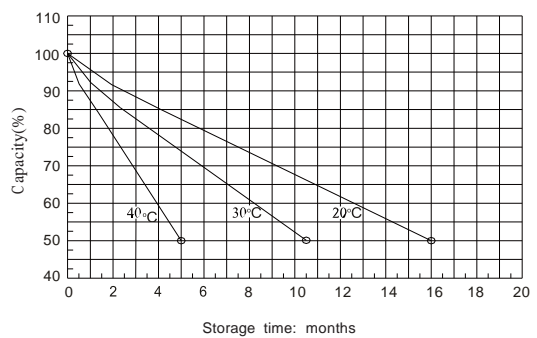
Constant voltage charging characteristic (0.25CA, at 25 C)



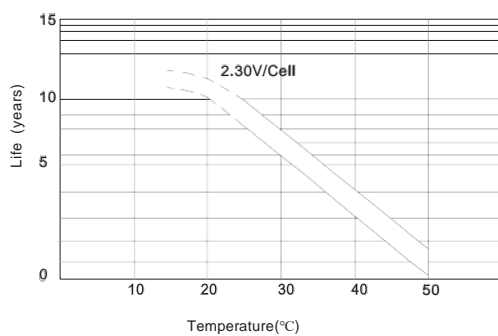
Life characteristics of stand by use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for stand by use

