

High Rate Series Battery

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

- *Emergency Power System
- *Power tools
- *Communication equipment
- *Alarm system
- *Telecommunication systems
- *Security system
- *Uninterruptible power supplies
- *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

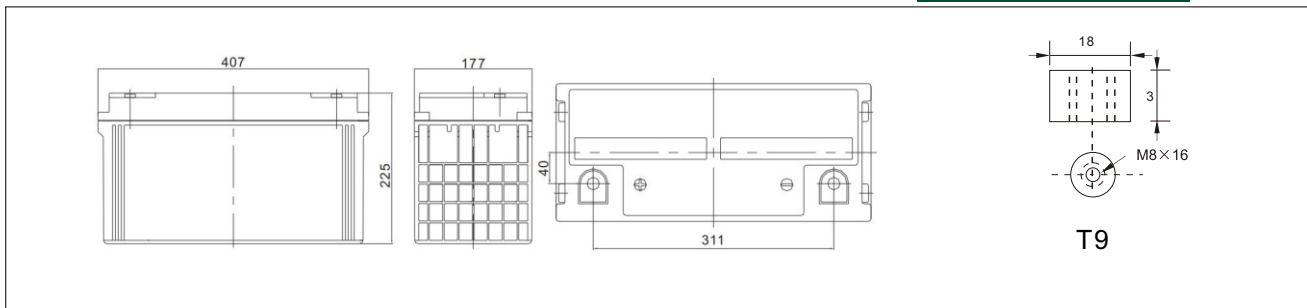
- *PositiveLead dioxide
- *NegativeLead
- *ElectrolyteSulfuric acid
- *Safety ValveEPDR
- *SeparatorFiber glass
- *TerminalCopper
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V0 can be available upon request

Specification

Battery Model	Nominal Voltage		12V	
	Capacity(15 minutes rate to 1.67V/Cell)		460W	
	Rated capacity(10 Hour rate)		125Ah	
Dimensions	Length	Width	Height	Total Height
	407mm (16.02 inches)	177mm(6.97 inches)	225mm(8.86 inches)	225mm(8.86 inches)
Approx Weight	36.0kg(79.38lbs) ±3%			
Capacity 25°C (77°F)	30 Min rate (1.7V)		15 Min rate (1.67V)	5 Min rate (1.6V)
	272.5W/cell		460W/cell	745W/cell
Max. discharge current	1250A (5Sec.)			
Internal Resistance	Full charged at 25 °C: Approx 4.5mΩ			
Capacity affected by Temp. (10 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 36A)		13.70-13.90V	

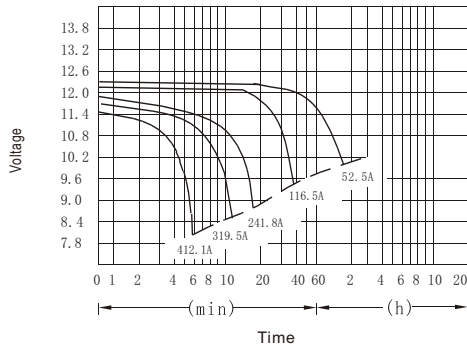
Outer dimensions (mm)

Terminal Type (mm)

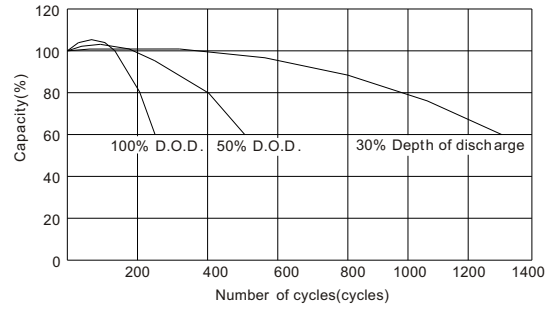


Constant Power(Watt) Discharge at 25°C (77°F)									Constant Current(Amp) Discharge at 25°C (77°F)								
F.V/Time	5min	10min	15min	20min	30min	45min	60min	90min	F.V/Time	5min	10min	15min	20min	30min	45min	60min	90min
1.60V	747.5	600.7	474.8	389.6	291.2	200.1	162.4	117.6	1.60V	412.10	319.70	258.50	204.30	142.50	101.70	79.15	58.35
1.67V	692.5	567.2	460.0	372.1	278.4	195.8	156.5	113.6	1.67V	391.50	295.60	249.60	198.80	139.10	99.10	77.45	57.17
1.70V	670.7	551.3	449.1	364.5	272.8	191.2	154.1	112.1	1.70V	367.80	284.70	241.80	191.50	135.80	96.54	75.83	55.84
1.75V	628.5	523.8	431.3	349.5	264.1	186.5	150.2	108.8	1.75V	353.50	271.50	231.50	183.50	128.30	93.35	74.37	54.47
1.80V	585.6	495.2	401.8	335.4	254.6	181.4	145.6	105.4	1.80V	330.70	260.30	215.40	167.70	119.40	90.11	72.54	52.51
1.85V	509.4	425.3	360.5	294.7	228.1	172.6	132.1	97.65	1.85V	310.80	218.50	190.50	149.10	105.80	84.75	67.41	48.89

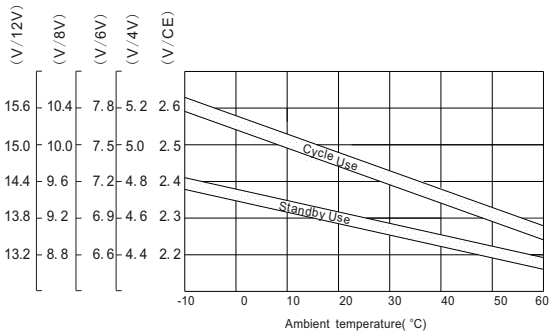
Discharge characteristic Curve



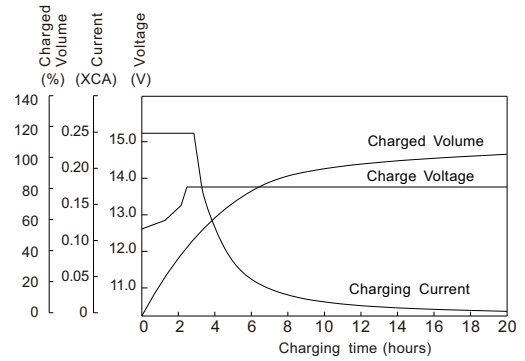
Cycle service life in relation to depth of discharge



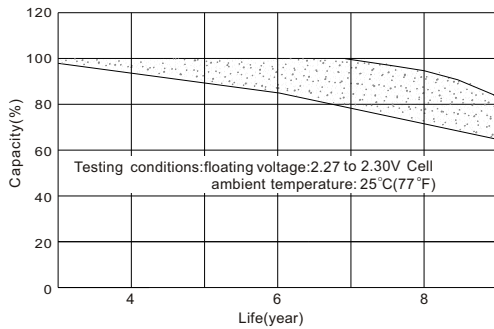
Relationship between charging voltage and temperature



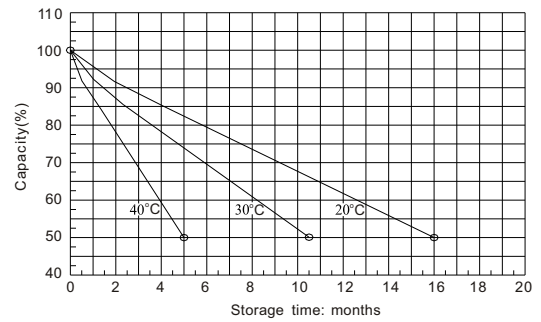
Constant voltage charging characteristic (0.25CA, at 25°C)



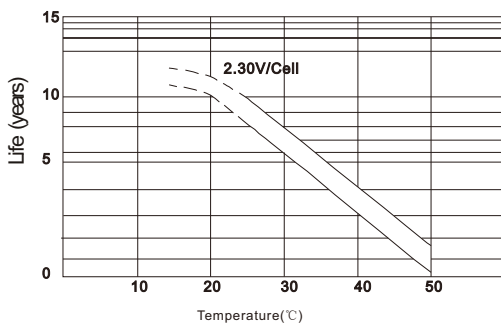
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

