

HR1234W

High Rate Series Batery

General Features



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.

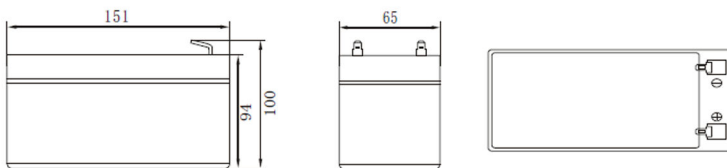
- Safety Sealing
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- Safety and Quality certification
- Long Life and low self-discharge design
- 30% increased power output

Container: ABS(UL94-HB) & Flame Retardant of UL94-V0 can be available upon request

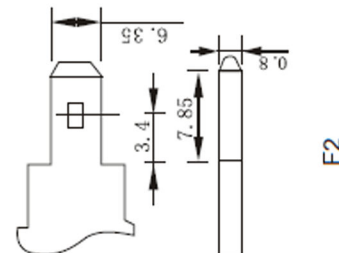
Specification

Batery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		9.0Ah	
	Capacity(15 minutes rate to 1.67V/Cell)		34W	
Dimensions	Lenght	With	Height	Total Height
	151mm (5.94inches)	65mm (2.56inches)	94mm (3.7inches)	100mm (3.94inches)
Aprox Weight	2.50kg (5.62lbs) ± 3%			
Max. discharge current	90 A (5Sec.)			
Internal Resistance	Approx 16.5mΩ			
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%
Self Discharge at 25°C (77°F)	After 3 month storage		After 6 month storage	After 12 month storage
	91%		82%	64%
Charge method 25°C (77°F)	Cycle Use		Float Use	
	14.6-14.8V (Initial charging current less than 2.7A)		13.70-13.90V	

Outer Dimensions (mm)



Terminal Type (mm)



F2

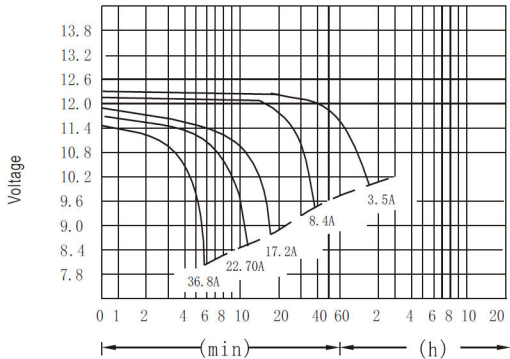
Constant Power(Watt) Discharge at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	60min	90min
1.60V	70.15	44.07	35.32	26.55	18.87	13.51	10.68	7.78
1.67V	64.27	42.07	34.01	25.30	18.31	12.87	10.27	7.50
1.70V	62.30	40.64	33.15	24.25	18.02	12.73	10.17	7.38
1.75V	57.50	38.74	32.24	23.64	17.53	12.07	9.76	7.19
1.80V	53.64	36.55	30.37	22.56	16.87	11.78	9.55	6.91
1.85V	46.68	30.81	26.12	19.87	14.89	10.67	8.71	6.37

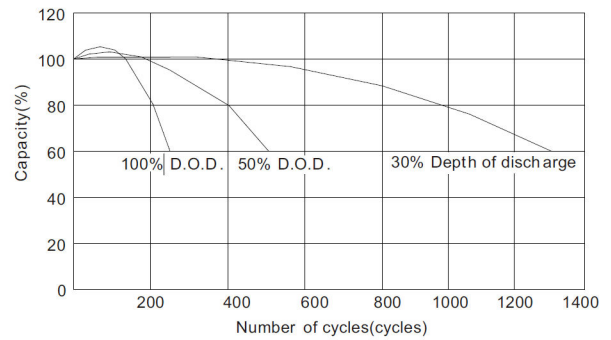
Constant Current(Amp) Discharge at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	60min	90min
1.60V	36.85	22.75	17.87	14.15	9.57	7.06	5.74	4.10
1.67V	35.31	21.81	17.26	13.47	9.27	6.82	5.61	3.30
1.70V	34.15	21.17	16.75	13.21	9.04	6.73	5.53	3.82
1.75V	31.54	20.25	16.33	12.83	8.81	6.54	5.47	3.71
1.80V	28.87	19.30	15.34	12.07	8.51	6.33	5.26	3.59
1.85V	24.65	16.40	13.37	10.31	8.38	6.15	5.09	3.28

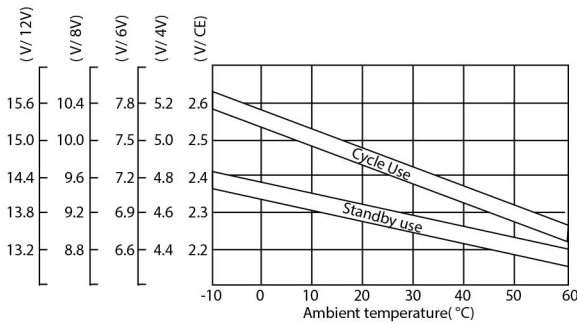
Discharge characteristic Curve



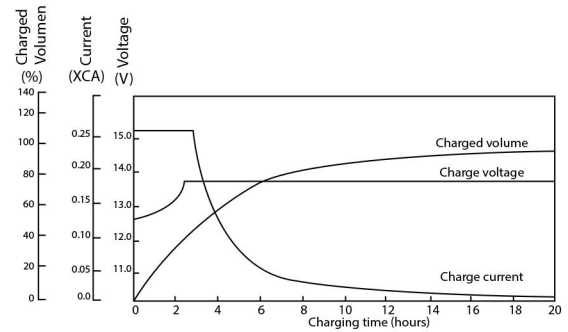
Cycle service life in relation to depth of discharge



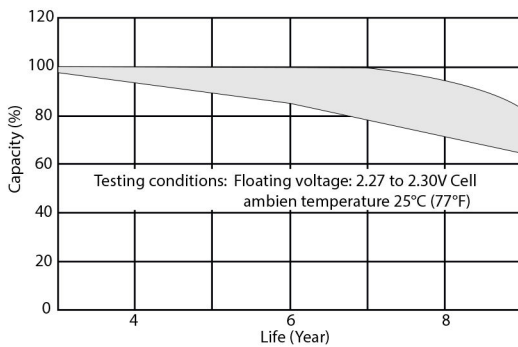
Relationship between charging voltage and temperature



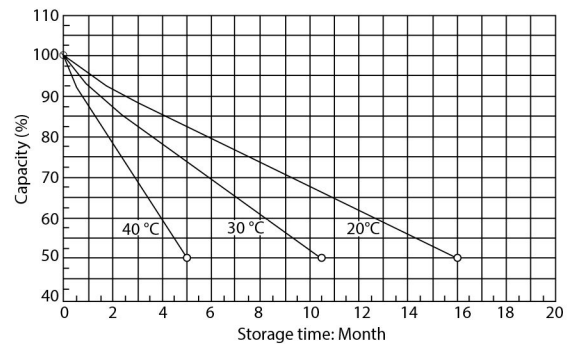
Constant voltage charging characteristic (0.25CA, at 25°C) .



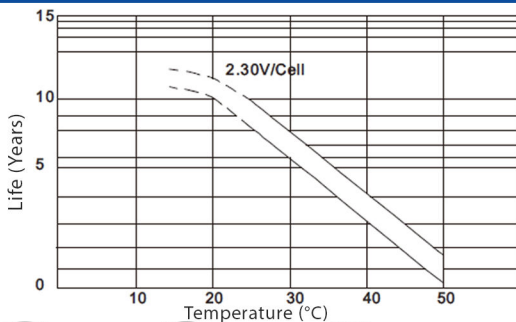
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

