

HR1248W

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.

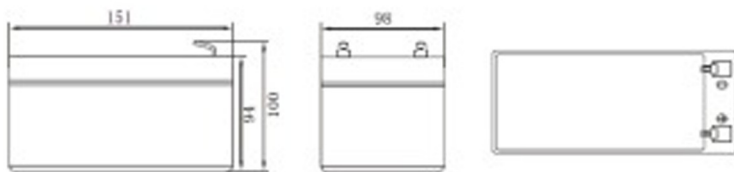
- Safety Sealing
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- Safety and Quality certification
- Long Life and low self-discharge design
- 30% increased power output

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

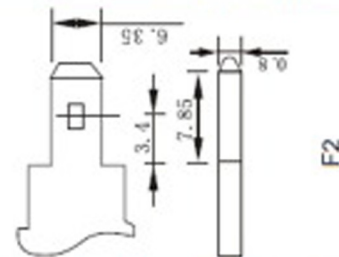
Specification

Batery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		12Ah	
	Capacity(15 minutes rate to 1.67V/Cell)		48W	
Dimensions	Lenght	With	Height	Total Height
	151mm (5.94inches)	98mm (3.06inches)	94mm (3.7inches)	100mm (3.94inches)
Aprox Weight	3.5kg (7.72lbs) ± 3%			
Max. discharge current	120 A (5Sec.)			
Internal Resistance	Full charged at 25°C: Approx 10.5mΩ			
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 6.1A)		13.70-13.90V	

Outer Dimensions (mm)



Terminal Type (mm)



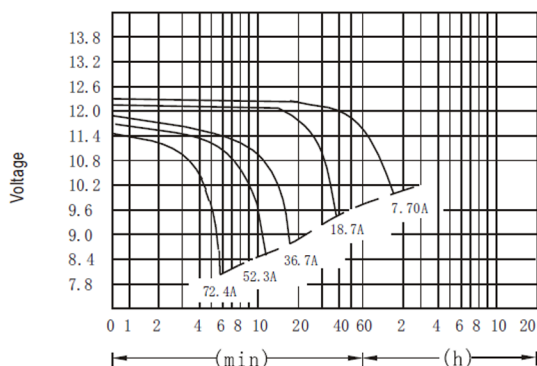
Constant Power(Watt) Discharge at 25°C (77°F)

F.V/Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60V	98.85	79.25	68.17	50.81	40.11	28.67	16.33	11.7
1.67V	90.78	73.37	63.74	47.78	38.32	27.59	15.69	11.28
1.70V	87.69	71.09	61.81	46.98	37.47	27.01	15.41	11.07
1.75V	82.17	66.99	58.63	44.67	36.07	26.09	15.02	10.77
1.80V	76.22	62.57	55.28	42.64	34.65	25.15	14.59	10.59
1.85V	67.15	54.11	47.67	37.17	30.37	22.37	13.48	9.72

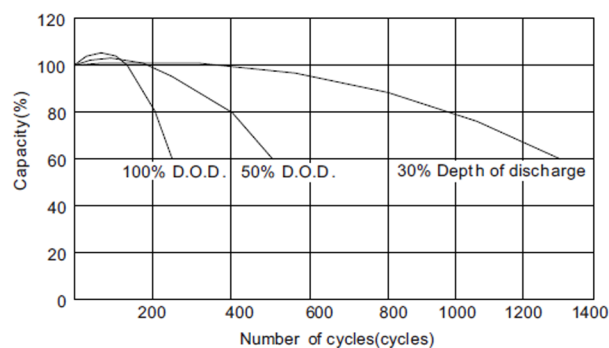
Constant Current(Amp) Discharge at 25°C (77°F)

F.V/Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60V	54.87	43.88	37.57	27.69	21.78	15.51	8.71	6.18
1.67V	49.83	40.09	34.62	25.87	20.59	14.63	8.31	5.91
1.70V	47.64	38.38	33.31	25.07	19.98	14.29	8.12	5.79
1.75V	44.13	35.74	31.17	23.79	18.99	13.64	7.85	5.62
1.80V	40.31	33.12	29.09	22.48	18.02	13.09	7.54	5.45
1.85V	34.67	28.27	24.61	19.33	15.67	11.58	6.83	4.98

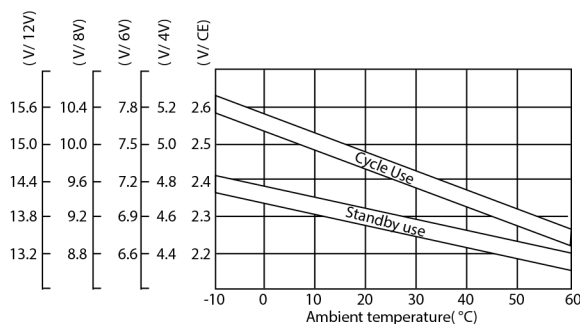
Discharge characteristic Curve



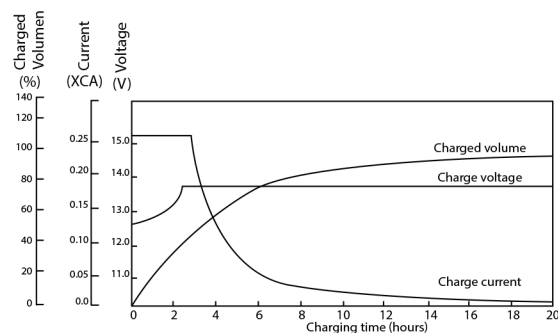
Cycle service life in relation to depth of discharge



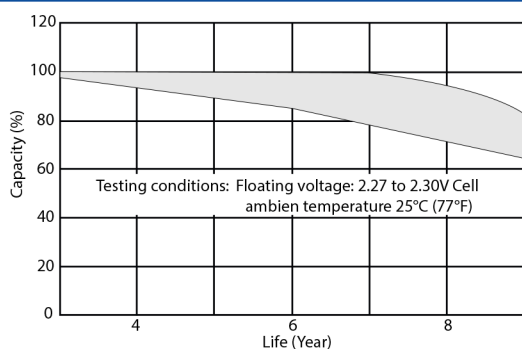
Relationship between charging voltage and temperature



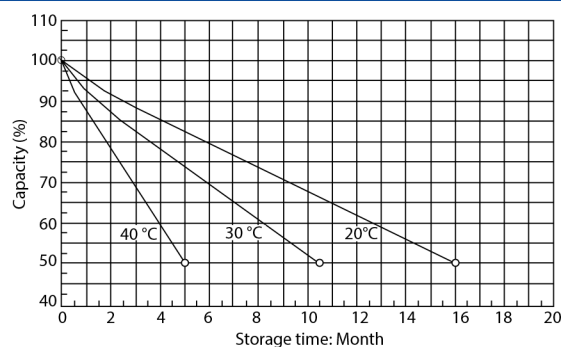
Constant voltage charging characteristic (0.25CA, at 25°C)



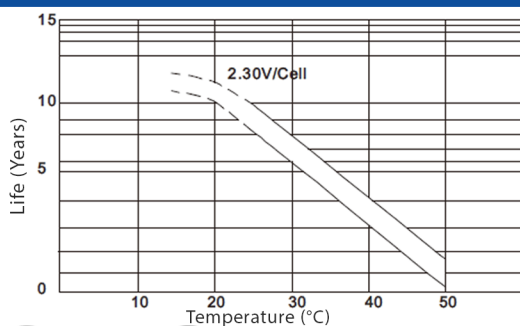
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

