

HR1225W

High Rate Series Battery

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.

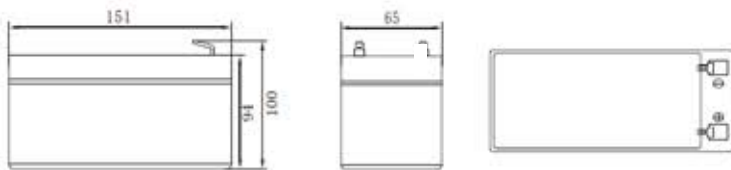
- Safety Sealing
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- Safety and Quality certification
- Long Life and low self-discharge design
- 30% increased power output

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

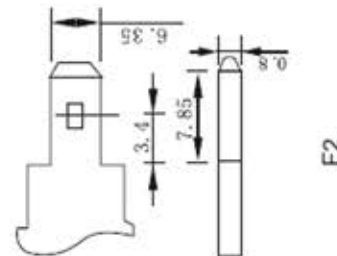
Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		25W	
	Capacity(15 minutes rate to 1.67V/Cell)		7Ah	
Dimensions	Lenght	With	Height	Total Height
	151mm (5.94inches)	65mm (2.56inches)	94mm (3.7inches)	100mm (3.94inches)
Aprox Weight	2.18kg (4.79lbs) ± 3%			
Max. discharge current	80 A (5Sec.)			
Internal Resistance	Approx 23.0mΩ			
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 2.1A)		13.70-13.90V	

Outer Dimensions (mm)



Terminal Type (mm)



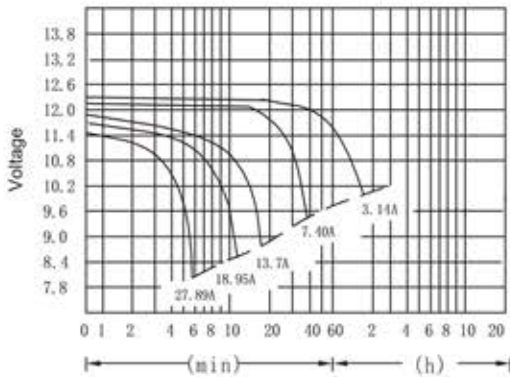
Constant Power(Watt) Discharge at 25°C (77°F)

F.V/Time	5min	10min	15min	30min	60min	3H	10H	20H
1.60V	50.49	35.84	27.41	26.55	15.68	12.51	9.40	6.88
1.67V	44.82	33.44	25.40	25.30	15.35	11.87	9.33	6.82
1.70V	42.44	32.26	25.38	24.25	15.22	11.73	9.27	6.81
1.75V	38.41	30.37	24.34	23.64	14.96	11.07	9.16	6.73
1.80V	34.32	28.34	23.37	22.56	14.63	10.78	9.10	6.70
1.85V	30.24	26.30	22.18	19.87	14.24	10.67	8.98	6.64

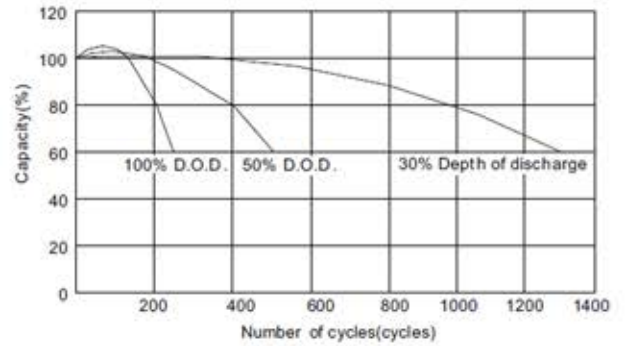
Constant Current(Amp) Discharge at 25°C (77°F)

F.V/Time	5min	10min	15min	30min	60min	3H	10H	20H
1.60V	27.30	18.77	14.87	13.15	8.57	7.06	5.74	4.10
1.67V	24.95	17.81	14.26	12.47	8.27	7.82	5.61	3.30
1.70V	22.94	17.17	13.75	12.21	8.04	7.73	5.53	3.82
1.75V	20.54	16.25	13.33	11.83	7.96	7.54	5.47	3.71
1.80V	18.87	15.30	12.84	11.07	7.84	7.33	5.26	3.59
1.85V	16.65	14.40	12.37	10.31	7.68	7.15	5.09	3.28

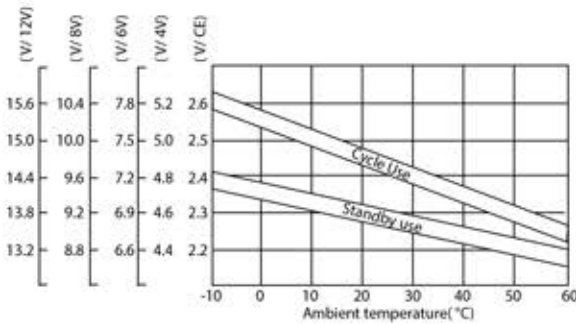
Discharge characteristic Curve



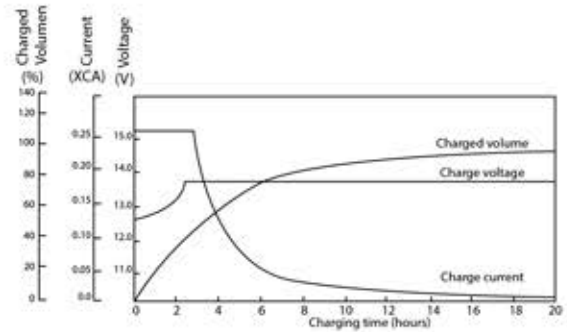
Cycle service life in relation to depth of discharge



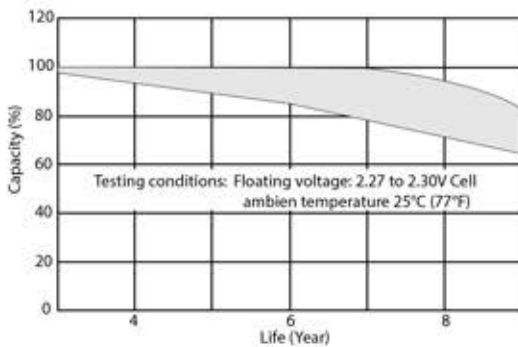
Relationship between charging voltage and temperature



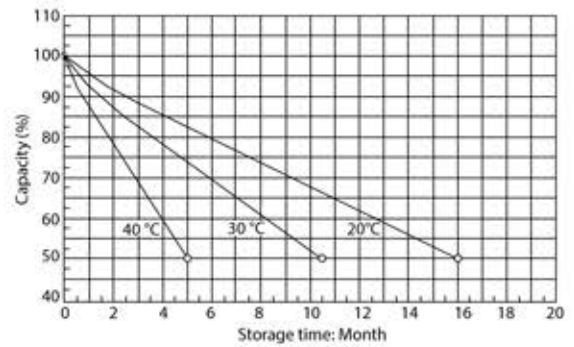
Constant voltage charging characteristic (0.25CA, at 25°C)。



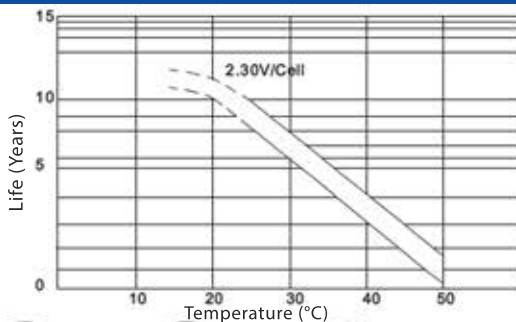
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

