

HR12165W

High Rate Series Battery

General Features



HR Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. High rate series Batteries are the special design batteries with 10 years floating design life at 25°C.

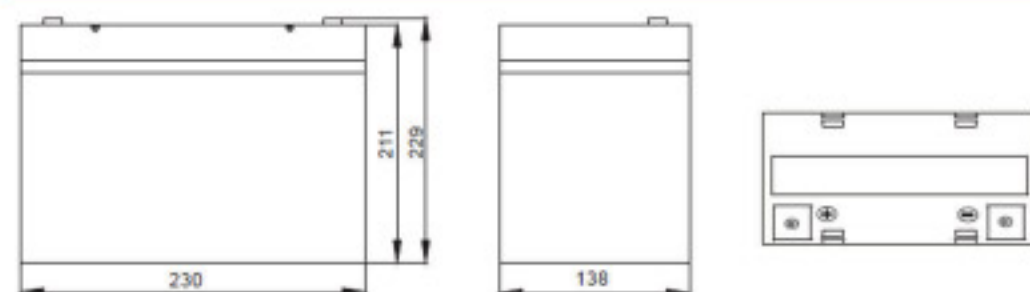
- Heavy Duty Grid
- Non-spillable construction
- Mechanized assembly
- High Reliability and Stability
- Sealed and Maintenance-free
- Long Life and low self-discharge design

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

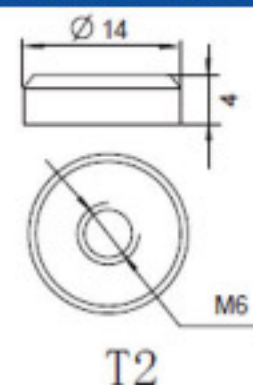
Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10 Hour rate)		55Ah	
	Cells Per Battery		6	
Dimensions	Lenght	With	Height	Total Height
	230mm (9.06inches)	138mm (5.43inches)	211mm (8.31inches)	215mm (8.46inches)
Aprox Weight	15.2kg (33.66lbs) ± 3%			
Max. discharge current	550A (5Sec.)			
Internal Resistance	Full charged at 25°C: Approx /mΩ			
Capacity affected by Temp. (10HR)	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	
	14.4-14.7V (Initial charging current less than 15.5A)		13.50-13.80V	

Outer Dimensions (mm)



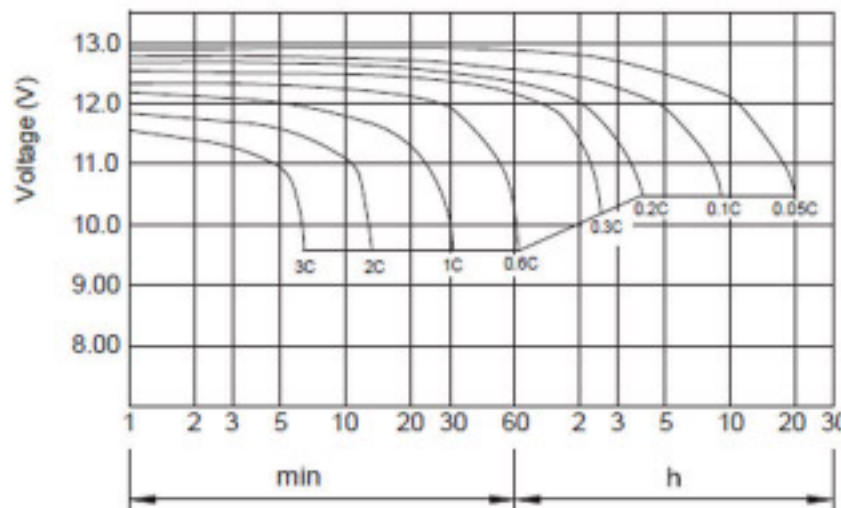
Terminal Type (mm)



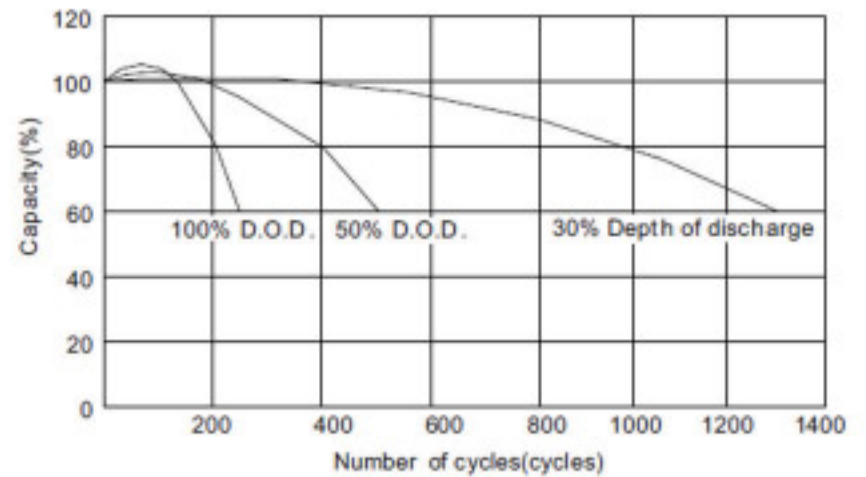
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/TIME		5min	10min	15min	30min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
9.60V	A	176.2	116.1	93.6	62.7	33.0	19.3	14.1	11.0	9.1	6.4	5.8	3.1
	W	1818.0	1239.4	1003.1	674.2	356.4	211.4	157.3	123.8	103.2	73.7	66.7	36.3
10.20V	A	170.6	104.7	88.1	60.0	31.0	18.4	13.8	10.7	8.9	6.3	5.7	3.0
	W	1822.1	1169.3	986.0	673.0	350.8	211.7	159.2	124.7	103.9	73.4	66.6	35.5
10.50V	A	165.1	93.7	77.1	56.1	30.0	17.9	13.4	10.6	8.8	6.2	5.6	3.0
	W	1802.4	1065.5	879.4	645.6	347.7	208.0	156.4	123.6	103.2	73.1	65.7	35.8
10.80V	A	159.1	88.3	71.6	51.7	29.0	17.5	13.1	10.4	8.6	6.1	5.5	3.0
	W	1784.7	1018.0	824.9	599.0	338.0	204.8	154.3	122.7	101.4	71.7	65.4	35.4
11.10V	A	153.7	82.7	66.1	46.2	28.1	17.1	12.7	10.1	8.4	5.9	5.2	2.8
	W	1743.2	957.9	769.5	540.5	329.9	201.5	150.3	120.5	99.8	70.5	63.1	34.0

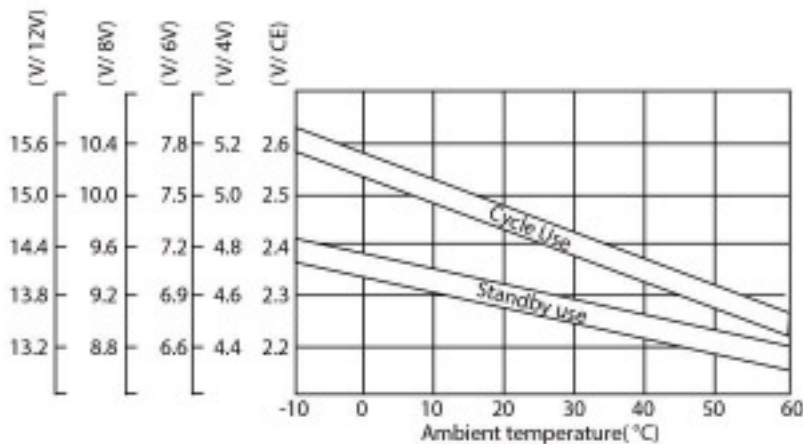
Discharge characteristic Curve



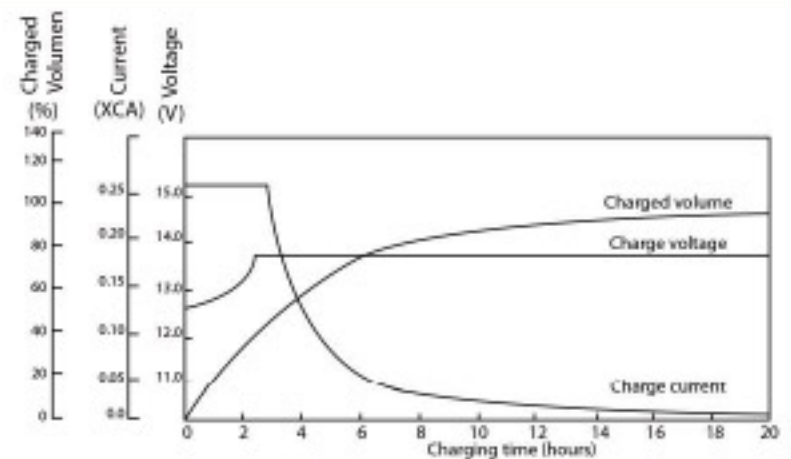
Cycle service life in relation to depth of discharge



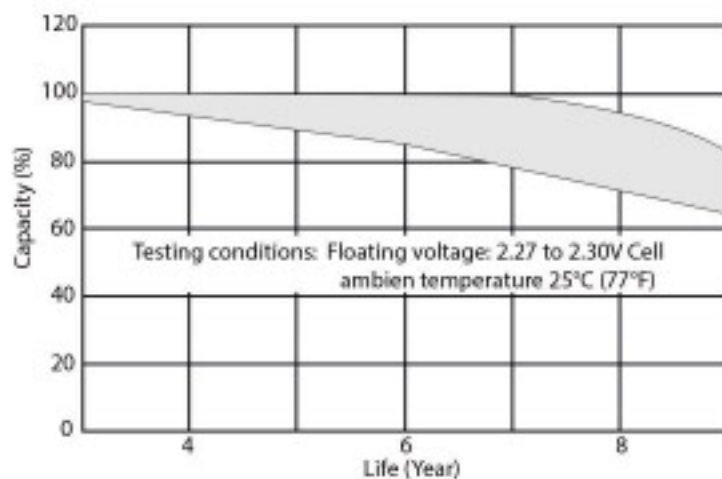
Relationship between charging voltage and temperature



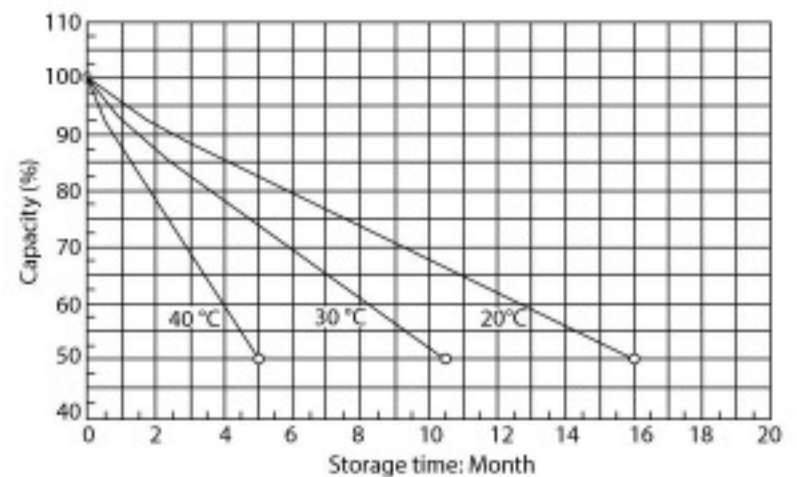
Constant voltage charging characteristic (0.25CA, at 25°C)



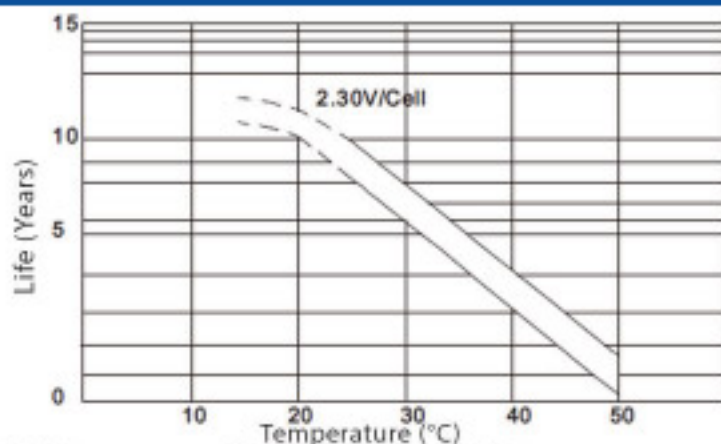
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

