

GT 12V series

12V Top Terminal AGM Battery

GT series is top terminal VRLA AGM battery for general use. With advanced manufacturing techniques and industrial scale, GT series delivers high energy density and high reliability performance, highly suited for UPS systems, security and alarm systems, telecommunication, utilities, emergency light systems, CATV and other backup applications.



UPS



Emergency lighting



Utility



Telecom

Features and Benefits

- Valve Regulated Lead Acid AGM technology
- High energy density and high reliability
- Standard sizes for general purpose
- Low self-discharge rate
- Self-regulating pressure relief valve with flame arrester
- Design life at 25°C (77°F): 5 years for <38Ah, 10 years for ≥38Ah

Electrical Specifications

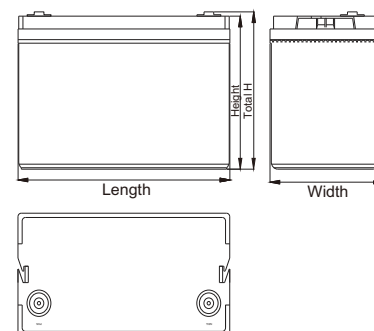
12V Top Terminal AGM Battery

Model	Number of cells	Nominal Voltage (V)	Capacity (25°C)					Internal Resistance	Short Circuit Current	Maximum Current	
			C ₁₀ /C ₂₀ *	C ₈ @1.75	C ₃ @1.70	C ₁ @1.60	C _{15min} @1.67			Charge	Discharge (5 sec)
			1.80V/cell	V/cell	V/cell	V/cell	V/cell				
			(Ah)				W/cell	(mΩ)	(A)	(A)	
VHR 12GT6.8	6	12	6.8	6.54	5.71	4.59	22.9	30	600	2.1	105
VHR 12GT7	6	12	7	6.56	5.73	4.61	23.6	28	600	2.1	105
VHR 12GT7.2	6	12	7.2	6.72	5.91	4.74	24.2	26	600	2.1	105
VHR 12GT7.5	6	12	7.5	7.04	6.15	4.94	25.2	22	600	2.1	105
VHR 12GT9	6	12	9	8.48	7.38	5.92	30.3	20	620	2.3	135
VHR 12GT10	6	12	10	9.36	8.19	6.58	33.7	20	630	3.0	180
VHR 12GT12	6	12	12	11.3	9.84	7.9	40.4	19	630	3.6	180
VHR 12GT18	6	12	18	16.9	14.7	11.8	60.6	13	800	5.4	300
VHR 12GT20	6	12	20	18.8	16.4	12.5	67.3	12	800	6.0	300
VHR 12GT26	6	12	26	24.0	20.2	16.4	77	10	1000	7.2	310
VHR 12GT33	6	12	33	31.0	27.0	21.7	111	9.5	1200	9.9	380
VHR 12GT38	6	12	38	37.1	31.7	26.7	120	9.5	1250	9.5	400
VHR 12GT50	6	12	50	48.9	41.1	33.5	156	6.5	1700	12.5	500
VHR 12GT65	6	12	65	63.6	53.5	43.5	204	6.2	1900	16.0	650
VHR 12GT80	6	12	80	78.2	65.3	53.5	250	6.0	2000	20.0	700
VHR 12GT90	6	12	90	87.9	74.0	60.2	282	5.5	2200	22.5	720
VHR 12GT100	6	12	100	98.0	82.2	66.9	313	5.0	2600	25.0	800
VHR 12GT120	6	12	120	117	98.6	80.3	376	4.0	3000	30.0	960
VHR 12GT150	6	12	150	147	124	100	470	3.5	3400	37.5	1200
VHR 12GT180	6	12	180	175	148	121	525	3.3	3400	45.0	1200
VHR 12GT200	6	12	200	195	164	133	583	3.0	4000	50.0	1500
VHR 12GT220	6	12	220	215	181	145	642	2.8	4200	55.0	1600
VHR 12GT250	6	12	250	245	206	165	730	2.6	4600	62.5	1800

*6.8AH ~33Ah nominal capacity are based on C₂₀ to 1.75V/cell, 38Ah ~250Ah nominal capacity are based on C₁₀ to 1.80V/cell.

Physical Specifications

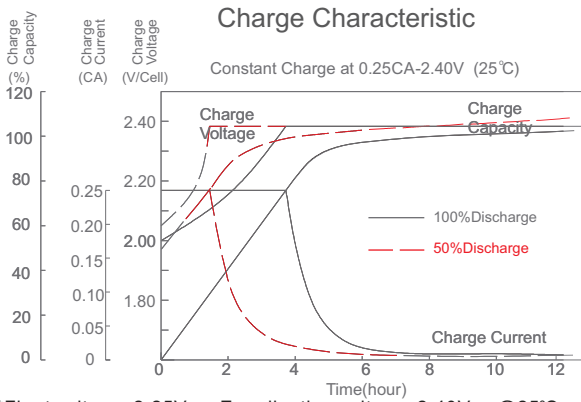
Model	Dimension(mm)				Weight (kg)	Terminal Type	
	Length	Width	Height	Total H		Type	Torque (N.m)
VHR 12GT6.8	151	65	94	101	2.00	F2	/
VHR 12GT7	151	65	94	101	2.12	F2	/
VHR 12GT7.2	151	65	94	101	2.19	F2	/
VHR 12GT7.5	151	65	94	101	2.28	F2	/
VHR 12GT9	151	65	94	101	2.60	F2	/
VHR 12GT10	151	98	95	101	3.44	F2	/
VHR 12GT12	151	98	95	101	3.68	F2	/
VHR 12GT18	181	76	170	170	5.20	F-M5	3-4
VHR 12GT20	181	76	170	170	5.60	F-M5	3-4
VHR 12GT26	175	166	125	125	8.15	F-M5	3-4
VHR 12GT33	195	130	163	163	10.5	F-M5	3-4
VHR 12GT38	196	165	180	180	12.2	F-M6	6-8
VHR 12GT50	330	171	170	175	18.5	F-M6	6-8
VHR 12GT65	330	171	170	175	20.5	F-M6	6-8
VHR 12GT80	330	174	215	220	25.0	F-M6	6-8
VHR 12GT90	330	174	215	220	27.0	F-M6	6-8
VHR 12GT100	330	174	215	220	28.0	F-M8	10-12
VHR 12GT120	405	174	209	232	34.4	F-M8	10-12
VHR 12GT150	483	170	241	241	40.8	F-M8	10-12
VHR 12GT180	520	240	220	228	53.0	F-M8	10-12
VHR 12GT200	520	240	220	228	57.0	F-M8	10-12
VHR 12GT220	525	267	220	228	62.5	F-M8	10-12
VHR 12GT250	525	267	220	228	66.0	F-M8	10-12



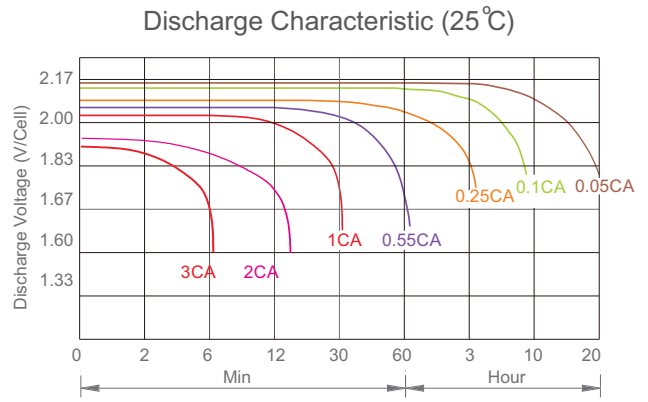
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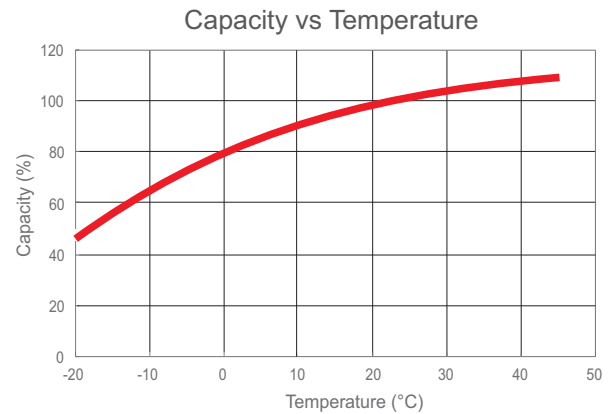
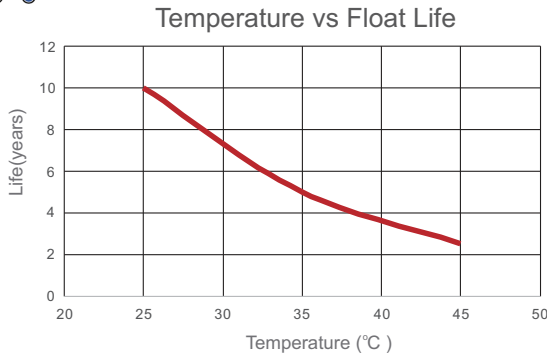
Charge/Discharge Characteristics



*Float voltage: 2.25Vpc, Equalization voltage: 2.40Vpc @25°C

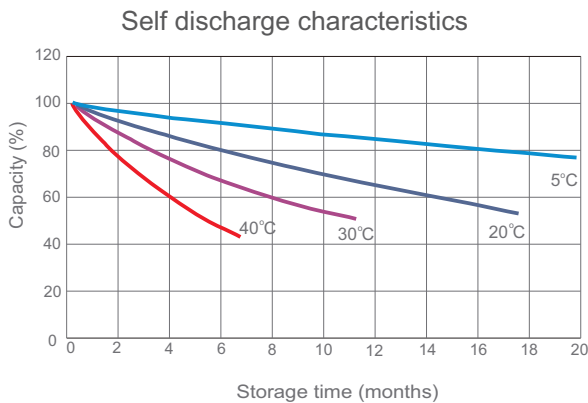


Temperature Characteristics

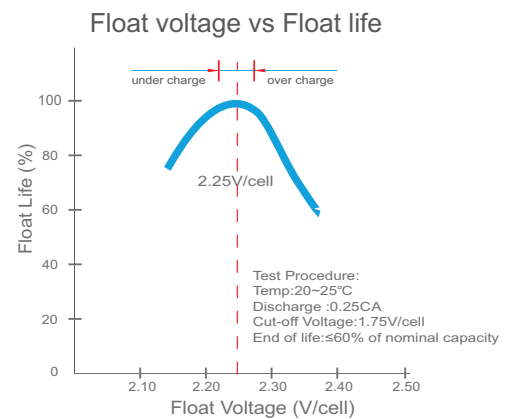


Temperature Range		
Discharge	Charge	Storage
-20°C to +55°C	-20°C to +50°C	-20°C to +45°C

Self Discharge Characteristics



Stationary/ Floating Characteristics



Standards Compliance

