

RNG-BATT-AGM12-200 (12V 200AH/10HR)

Absorbent Glass Mat (AGM) Specifications



Renogy AGM batteries are capable of delivering high currents on demand and offer long service life with very low self-discharge. They are designed for frequent and cyclic discharge. Valve regulated, spill proof construction allows safe operation in any position. They are suitable for various applications including electric vehicles, solar/wind energy system, UPS battery backup, telecommunication systems, medical equipment, and more.

Specifications

Electric Characteristics	Nominal Voltage		12V
	Rated Capacity (0.2C)		200Ah
	Energy		2400Wh
	Internal Resistance		2.7 Ω at 25°C
Standard Charge	Charge Voltage		Cycle use: 14.4-15V Float use: 13.5-13.8V
	Maximum Charge Current		80A
Standard Discharge	Maximum Discharge Current		2000A(5S)
	Self Discharge		3% of capacity declined per month at 20°C
Rated Capacity	10 Hour Rate (20.0A to 10.8V)		200.0Ah
	3 Hour Rate (52.0A to 10.8V)		156.0Ah
	1 Hour Rate (122.0A to 9.6V)		122.0Ah
Temperature Parameters	Operation Temperature Range	Charge	0~40°C (32~104° F)
		Discharge	-15~50°C (5~122° F)
	Storage Temperature Range	-15~40°C (5~104° F)	
Mechanical Properties	Dimensions	Length	522mm (20.5in)
		Width	240mm (9.4in)
		Height	240mm (9.4in)

	Weight	58.5kg (128.97lbs)
	Housing Material	ABS
	Terminal Model	T13

Discharge Charts

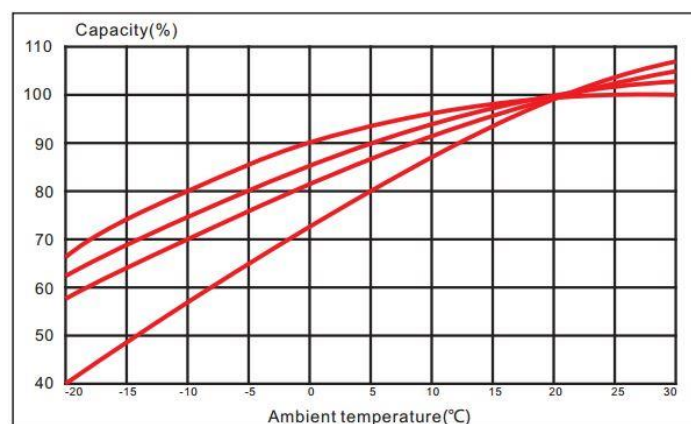
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	278.4	240.0	204.6	154.8	115.1	94.3	60.1	46.2	37.6	31.3	27.2	22.1	18.9	10.3
1.80V/cell	343.9	282.4	235.8	179.5	133.9	105.6	65.5	50.6	40.6	33.6	29.2	23.4	20.0	10.4
1.75V/cell	377.8	302.0	250.2	189.2	139.0	110.5	68.0	52.0	41.7	34.5	30.0	23.8	20.2	10.5
1.70V/cell	411.8	322.5	264.0	196.4	144.5	114.0	70.7	53.5	42.7	35.3	30.6	24.2	20.4	10.7
1.65V/cell	444.4	342.9	281.4	204.6	148.1	117.8	72.7	55.8	44.2	36.3	31.3	24.7	20.8	10.8
1.60V/cell	476.4	366.7	297.6	216.0	154.4	122.0	75.1	57.5	45.5	37.3	32.0	25.1	21.0	10.9

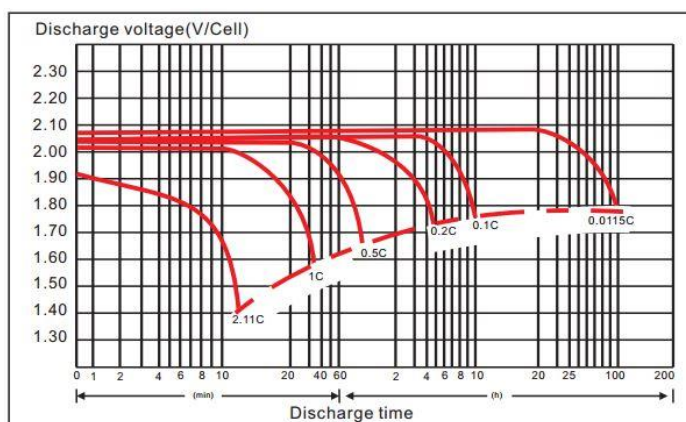
Constant Current Discharge (Watts) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	514.3	447.8	385.7	295.0	221.3	181.9	116.6	90.1	73.4	61.3	53.5	43.6	37.4	20.4
1.80V/cell	627.7	519.9	438.0	336.9	255.4	202.6	126.4	98.1	78.9	65.5	57.2	46.1	39.5	20.6
1.75V/cell	678.7	549.2	460.2	352.2	262.5	211.0	130.6	100.5	80.7	67.2	58.6	46.8	39.9	20.7
1.70V/cell	723.0	578.2	482.0	363.5	272.0	217.0	135.6	103.1	82.6	68.6	59.7	47.4	40.2	21.1
1.65V/cell	773.1	610.1	509.9	375.7	276.3	222.7	138.5	107.0	85.1	70.2	60.8	48.4	41.0	21.4
1.60V/cell	809.8	641.7	533.4	393.8	286.4	229.4	142.5	109.8	87.3	72.0	61.9	49.0	41.4	21.5

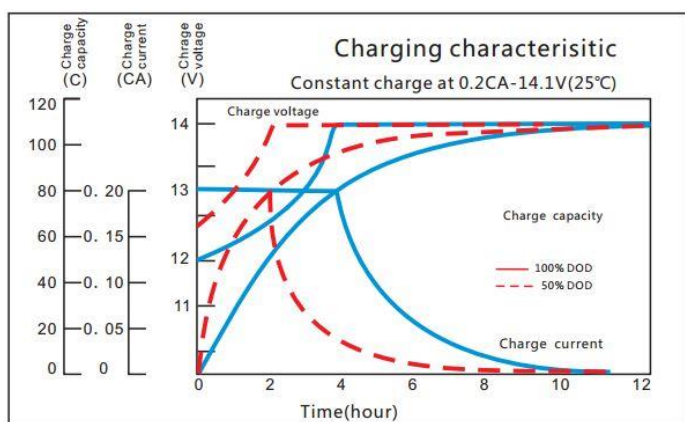
Curve of Discharge Capacity vs. Ambient Temperature



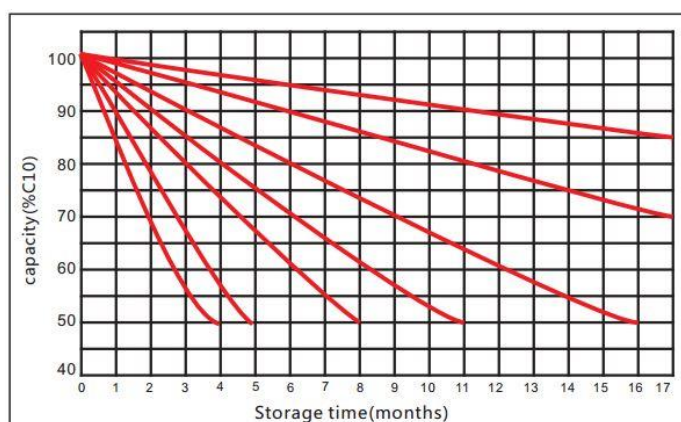
Discharge Characteristics at Different Discharge Rates (20°C)



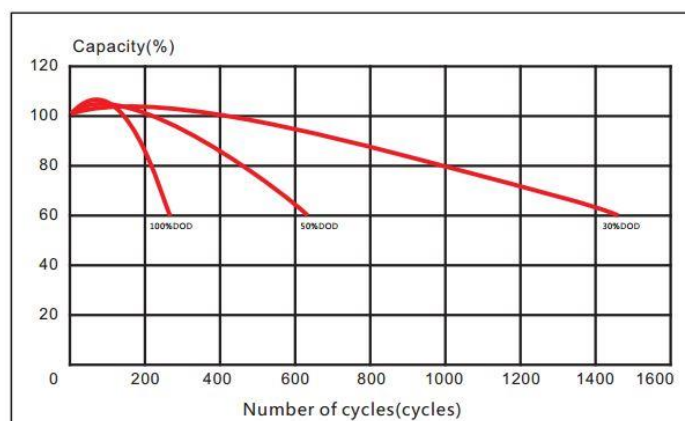
Charging Characteristics



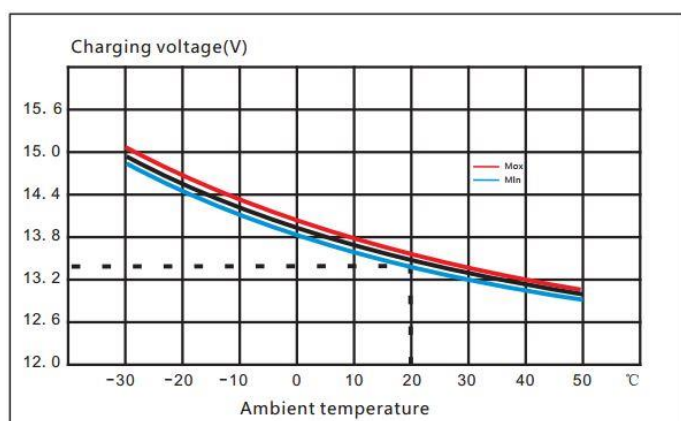
Self-Discharge vs Storage Time



Curves of Cycle Life



Float Voltage vs Ambient Temperature



Maintenance and Cautions

- Avoid over-discharging batteries, especially when they are in series connections
- Charge the batteries with recommended voltages, ensure the battery can be fully charged
- Generally, recharge capacity should be $1.1 \sim 1.5 \times$ the discharge capacity
- The effect of temperature on cycle charge voltage: $-4 \text{ mV} / ^\circ\text{C} / \text{Cell}$
- Length of cycle services is significantly affected by depth for discharge (primarily), along with ambient temperature, discharge rate, and the way the battery is recharged.



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