RNG-BATT-GEL6-260 (6V 260AH/20HR)

Gel Specifications

Renogy Gel 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. They are suitable for various applications including electric vehicles, solar/wind energy system, UPS battery backup, telecommunication systems, medical equipment, and more.

Specifications

Capacity (25℃)	20Hr(13A,1.75V)	10Hr(23.5A,1.75V)	5Hr(44A,1.75V)	3Hr(66.7A,1.75V)
	260Ah	235Ah	220Ah	200Ah
Dimensions	Length	Width	Height	Total Height
	10.24 inches	7.13 inches	10.71 inches	10.74 inches
Approx. Weight	78.71 lbs. ± 3%			
Internal Resistance	2.6mΩ			
Self Discharge	≤3% per month (25℃)			
Charge Voltage 25℃	Cycle Use		Float Use	
	7.1V(-9mV/℃), max charge current:27A		6.75V(-9mV/℃)	
Operating Temperature	-25°C to 45°C			
Shelf Life	9 months at 25°C			
Material	ABS Containers and Covers			

Discharge Charts

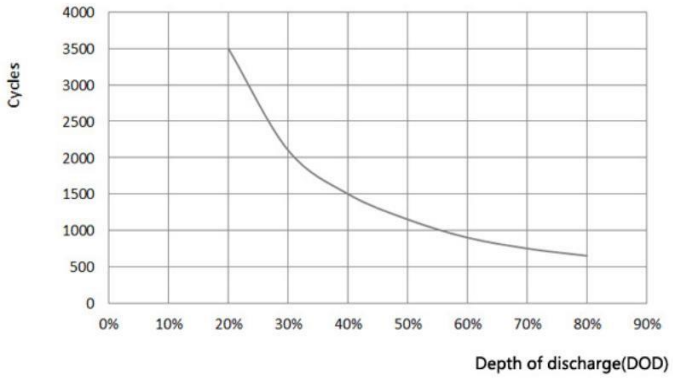
Constant Current Discharge (Amperes) at 25°C

End Voltage (V/cell)	10min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	552.4	339.5	252.0	186.8	151.5	112.2	92.02	67.93	44.66	23.81	13.14
1.65	542.2	335.4	250.0	185.6	150.8	111.6	91.55	67.57	44.45	23.69	13.08
1.70	533.4	331.4	248.2	184.7	150.1	111.1	91.17	67.29	44.29	23.60	13.04
1.75	501.0	318.0	240.0	180.0	147.0	109.3	90.00	66.67	44.00	23.50	13.00

Constant Current Discharge (Watts) at 25°C

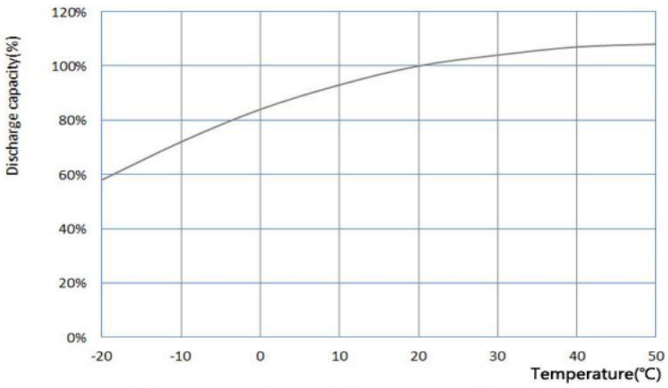
End Voltage (V/cell)	10min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	970.5	611.4	463.1	348.7	286.7	215.0	177.8	132.3	87.57	47.00	26.06
1.65	969.8	613.3	465.1	350.3	287.7	215.2	178.0	132.3	87.59	46.96	26.06
1.70	967.6	613.0	466.6	352.2	289.0	215.8	178.6	132.1	87.75	46.98	26.06
1.75	921.4	595.8	456.4	346.6	285.6	214.3	177.5	132.1	87.75	46.96	26.07

Cycle vs Depth of Discharge



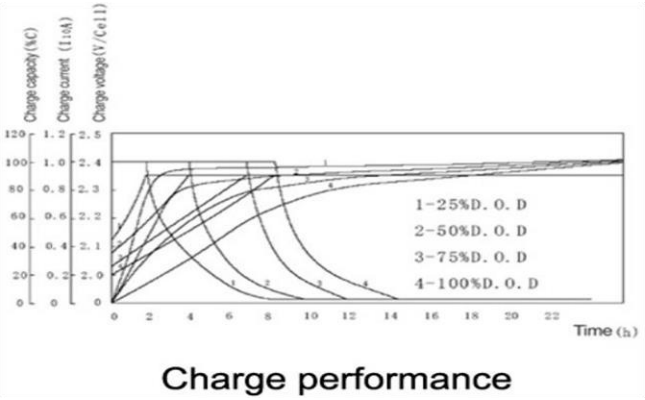
Cycle Vs Discharge depth

Temperature vs Capacity



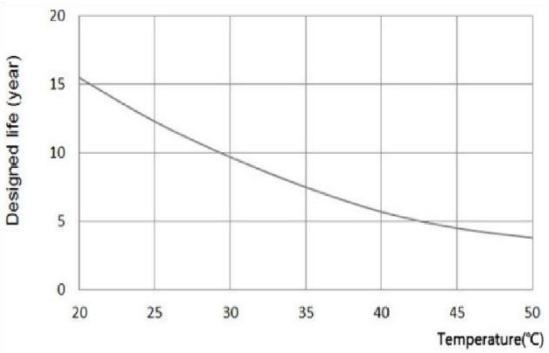
Temperature Vs capacity

Charge Performance



Charge performance

Designed Life vs Temperature



Designed life Vs 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 ~ 1.5 * the discharge capacity
- The effect of temperature on cycle charge voltage: -3 mV / °C / 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.