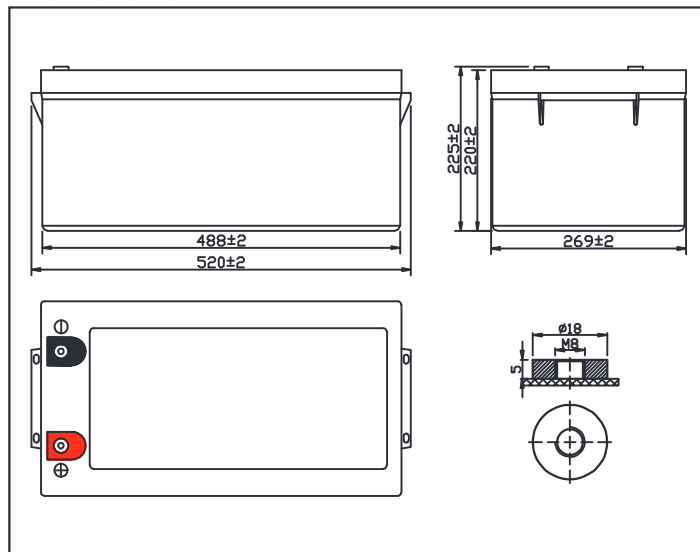




Plane Chart:

Unit:(mm) Terminal type:(T2)



Residual Capacity

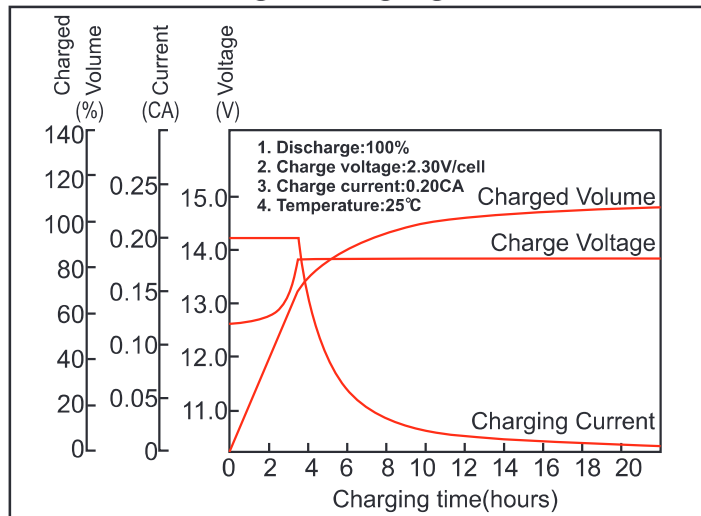
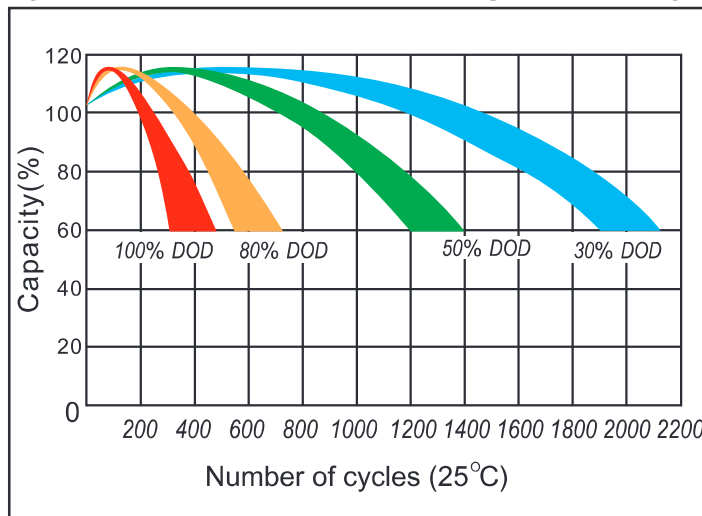
Figure 1 is a line graph showing the relationship between Residual Capacity (%) and Storage Period (months) for different temperatures. The Y-axis represents Residual Capacity (%) from 0 to 100 in increments of 20. The X-axis represents Storage Period (months) from 0 to 18 in increments of 3. Four lines are plotted, representing temperatures of 0°C, 10°C, 25°C, and 40°C. All lines start at 100% residual capacity at 0 months. The 0°C line shows the slowest decline, while the 40°C line shows the steepest decline.

Storage Period (months)	0°C	10°C	25°C	40°C
0	100	100	100	100
3	98	95	85	75
6	95	90	75	55
9	92	85	65	40
12	88	80	55	-
15	85	75	45	-
18	82	70	35	-

Figure 1 is a line graph showing the typical discharge characteristics of the cell. The y-axis represents Terminal Voltage (V) from 7.0 to 13.0. The x-axis represents Discharge Time from 0 to 30 hours, with a break between 3 and 10 hours. The graph shows seven discharge curves for different rates: 2C, 1C, 0.6C, 0.3C, 0.2C, 0.1C, and 0.05C. The 0.05C curve maintains the highest voltage, while the 2C curve drops most rapidly. A dashed horizontal line at 10.0V indicates the end-of-discharge voltage.

Discharge Rate	Approx. Discharge Time (h)	Terminal Voltage (V)
0.05C	20	10.0
0.1C	10	10.0
0.2C	5	10.0
0.3C	3	10.0
0.6C	1	10.0
1C	0.5	10.0
2C	0.25	10.0

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

MODEL: OT270-12(GEL)/CD
Constant voltage charging characteristics

Cycle service life in relation to the depth of discharge

Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	30min	45min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	238.5	185.0	152.6	88.7	65.6	51.7	45.3	30.5	25.8	13.6
10.2V	230.8	180.0	148.4	87.3	63.2	51.1	44.7	30.2	25.6	13.6
10.5V	225.9	176.2	145.6	86.5	62.3	50.8	44.3	29.9	25.4	13.5
10.8V	214.4	169.7	141.3	85.6	60.5	49.2	43.8	29.6	25.2	13.2

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	30min	45min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2480	1979	1690.2	1026.5	762.3	602.3	529.1	357.2	304.5	162.8
10.2V	2446	1947	1661.8	1012.5	736.3	596.8	523.0	354.2	303.3	162.4
10.5V	2423	1925	1647.0	1006.5	727.7	594.9	519.6	351.6	302.5	161.3
10.8V	2388	1902	1618.0	999.8	709.1	578.1	515.5	349.3	301.4	157.2

Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.