

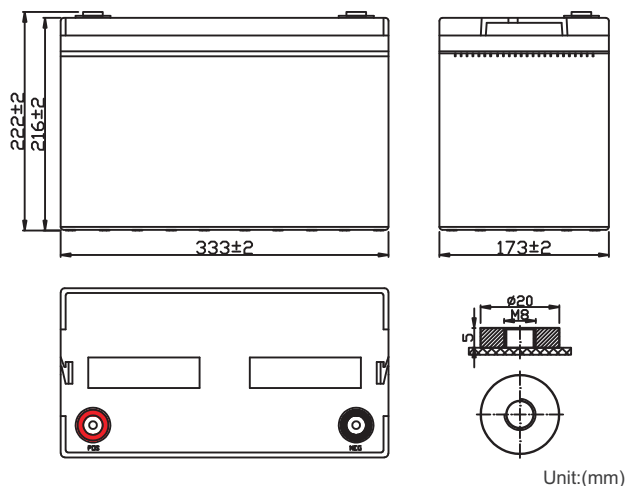
MODEL: OT100-12(GEL)/CN



Parameter

Rated Voltage	12V	
Nominal Capacity(25°C)	100Ah(C ₁₀ , 10.8V)	
Dimension	Length	333±2mm(13.11 inch)
	Width	173±2mm(6.81 inch)
	Container Height	216±2mm(8.50 inch)
	Total Height	222±2mm(8.74 inch)
Weight±3%	30.50Kg(67.24 lbs)	
Terminal	T3/M8	
Container Material	ABS	
Rated Capacity(25°C)	89.00Ah	(5HR, 17.80A, 10.5V)
	77.10Ah	(3HR, 25.70A, 10.2V)
	61.20Ah	(1HR, 61.20A, 9.6V)
Full charged Internal Resistance(25°C)	Approx.5.0mΩ	
Operating Temp.Range	Discharge	-20°C~50°C(-4°F~122°F)
	Charge	-20°C~40°C(-4°F~104°F)
	Storage	-20°C~40°C(-4°F~104°F)
Nominal Operating Temp.Range	25±3°C(77±5°F)	
Max.Charging Current(25°C)	30.0A	
Charge Voltage(25°C)	Cycle	14.5~14.9V
	Temp. Coefficient	-30mV/°C
	Float	13.6~13.8V
	Temp. Coefficient	-18mV/°C
Self Discharge(25°C)	≤3% per month	

Plane Chart:



Constant Current Discharge Characteristics (A, 25°C)

F.V./Time	10min	15min	20min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	215.6	172.8	145.6	106.9	61.2	36.1	26.1	21.4	18.3	12.1	10.4	5.45
10.02V	208.6	167.5	140.7	104.3	59.3	35.8	25.8	21.1	18.1	12.0	10.3	5.40
10.20V	206.9	165.6	137.2	103.0	58.6	35.6	25.7	20.9	18.0	11.9	10.2	5.35
10.50V	196.8	160.2	133.0	100.0	57.2	35.3	25.5	20.6	17.8	11.8	10.1	5.30
10.80V	175.6	155.8	128.5	97.8	56.4	34.9	25.2	20.2	17.6	11.7	10.0	5.25

Constant Current Discharge Characteristics (Watt, 25°C)

F.V./Time	10min	15min	20min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	2293.4	1885.0	1598.7	1208.2	714.2	424.0	309.6	153.8	217.6	144.2	124.4	65.4
10.02V	2220.5	1831.9	1547.7	1180.7	694.4	420.5	305.5	250.2	215.0	143.0	123.2	64.8
10.20V	2209.6	1815.4	1516.1	1168.6	687.4	418.9	304.8	247.9	214.2	141.8	122.0	64.2
10.50V	2133.1	1772.5	1476.3	1137.9	671.5	415.4	302.4	244.3	211.8	140.7	120.8	63.6
10.80V	1936.9	1737.0	1439.2	1117.0	664.9	410.6	298.9	239.6	209.7	139.5	119.6	63.0

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

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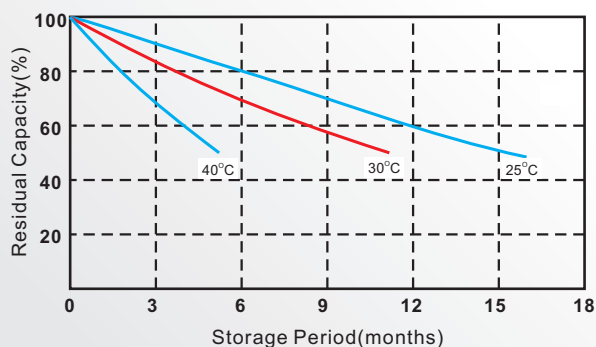
Application scope

- Energy storage system
- Solar and wind energy systems
- Uninterruptable Power Supply(UPS)
- Data Network & Operation Centers

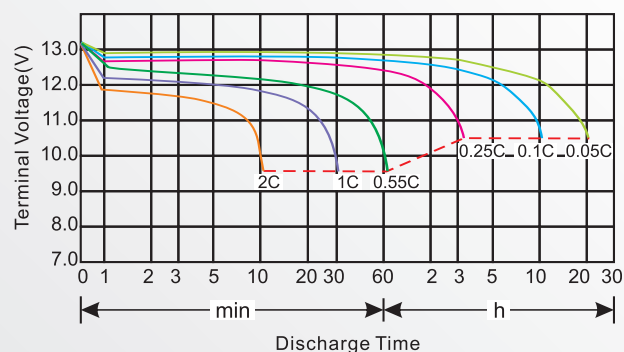
- Emergency Power Supply(EPS)
- Hospitals & Testing Laboratories
- Banks & Financial Markets
- Security alarm system



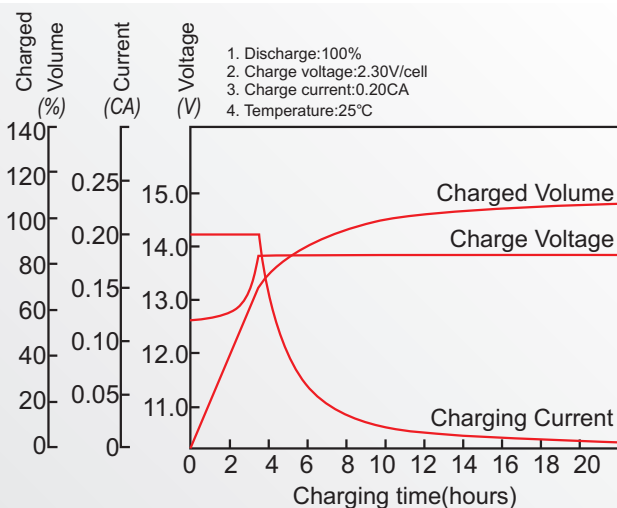
Residual Capacity



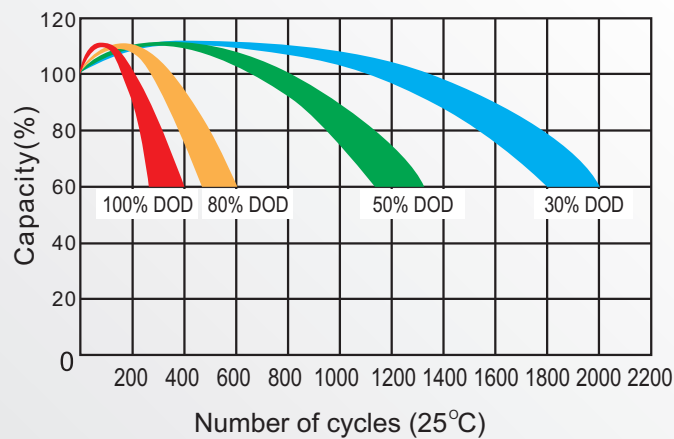
Discharge Current 25°C



Constant voltage charging characteristics



Cycle service life in relation to the depth of discharge



Capacity Factors With Different Temperature

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

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