



INDUSTRIAL BATTERY - VRLA-AGM BATTERY - SMALL SERIES

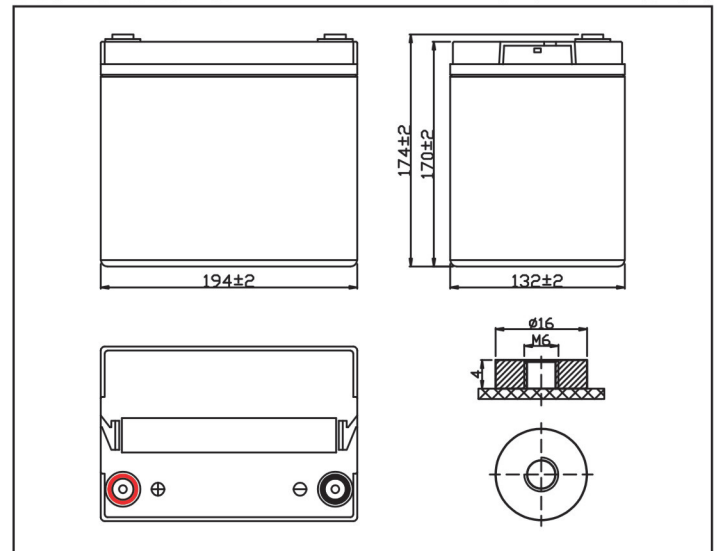
MODEL: OT33-12/A

NO.: 302010005-00254



Plane Chart:

Unit:(mm) Terminal type:(T1)



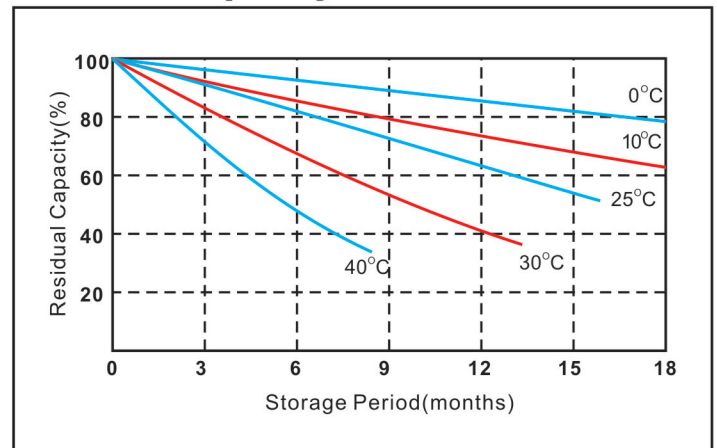
ISO 9001
 ISO 14001
 OHSAS18001



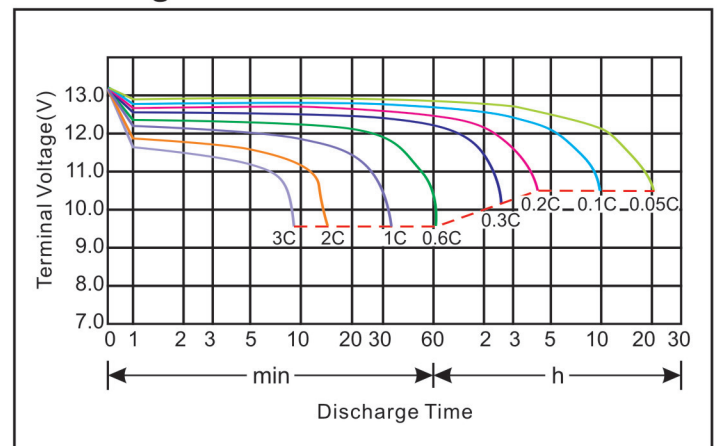
Parameter Chart:

Volts		12V
Capacity(25°C)	20 hours rate (1.65A)	33Ah
Discharge Current Testing (25°C)	20 I ₂₀ rate (33A,27min)	38min
	60 I ₂₀ rate (99A,7min)	10min
Internal Resistance	Full Charged Battery 25°C	6.4mΩ
Capacity Affected By Temperature	40°C	104%
	25°C	100%
	0°C	83%
	-15°C	65%
Residual Capacity (25°C)	Capacity After 3 Months Storage	91%
	Capacity After 6 Months Storage	82%
	Capacity After 12 Months Storage	65%
Charge (Constant Voltage)	Cycle (25°C)	Initial Charging Current Less Than 9.9A Voltage 14.5~14.9V
	Float (25°C)	Charge Voltage 13.6~13.8V
Weight (Approx)		10.65Kg

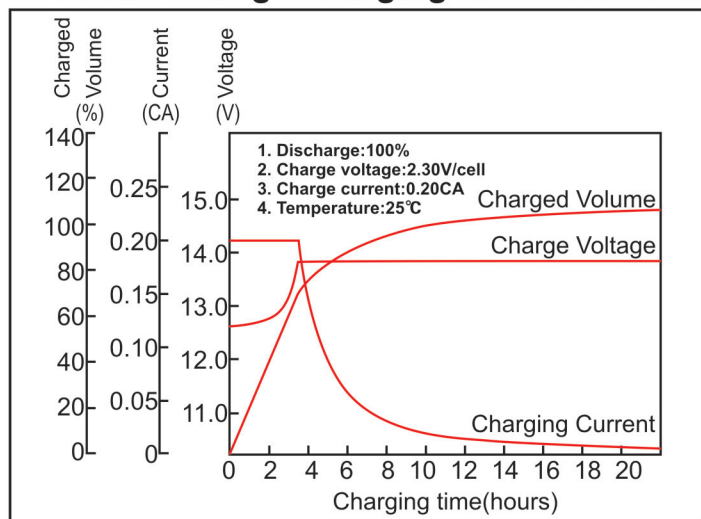
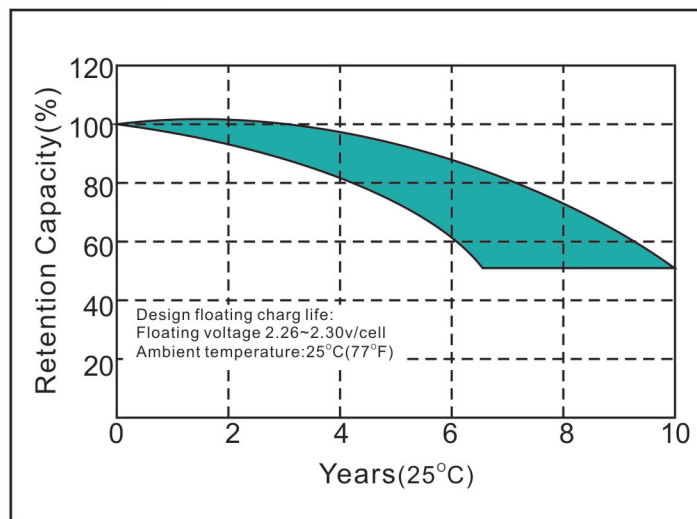
Residual Capacity



Discharge Current 25°C



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

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NO.: 302010005-00254
Constant voltage charging characteristics

Float Life

Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	107.6	68.9	56.7	33.2	20.3	11.8	8.7	5.8	3.8	3.1	1.8
10.2V	102.7	65.5	54.4	31.9	19.6	11.6	8.4	5.6	3.8	3.0	1.7
10.5V	99.5	63.6	53.0	31.1	19.1	11.5	8.2	5.5	3.8	3.0	1.7
10.8V	96.4	61.6	51.6	30.3	18.6	11.4	8.1	5.5	3.7	2.9	1.6

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	1129.5	745.1	622.9	372.6	231.8	136.0	101.7	68.1	45.3	38.0	19.8
10.2V	1076.6	708.0	597.5	356.9	223.0	134.0	98.8	66.7	44.9	37.8	19.6
10.5V	1044.4	686.5	582.3	348.6	211.7	133.1	96.8	65.7	44.6	37.6	19.4
10.8V	1012.1	665.0	567.2	340.3	200.5	131.6	94.9	64.7	44.2	37.4	19.2

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
Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

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