



VALVE REGULATED LEAD ACID BATTERY - MINI CAPACITY SERIES

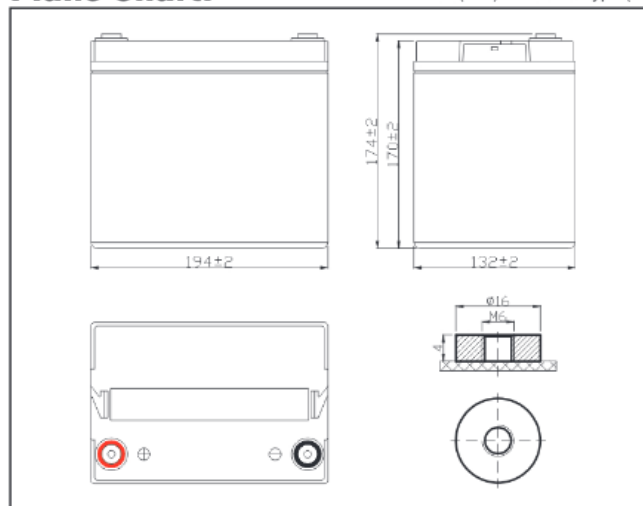
MODEL: OT33-12(B)

NO.: 302010001-00053



Plane Chart:

Unit:(mm) Terminal type:(T1)



ISO 9001
ISO 14001
OHSAS18001

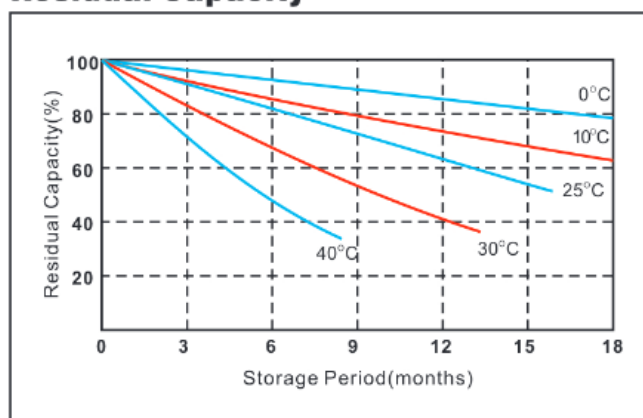


Parameter Chart:

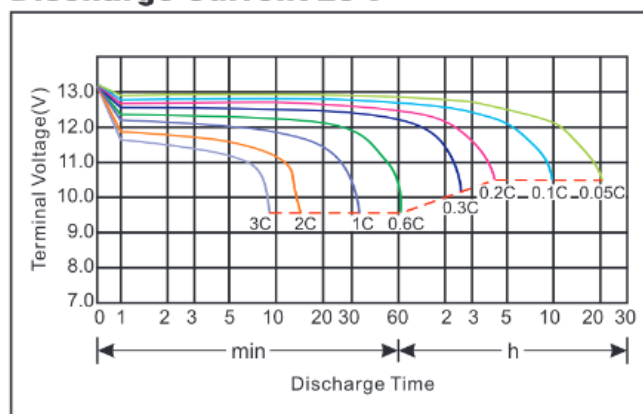
Volts		12V	
Capacity(25°C)		20 hours rate (1.65A)	33Ah
Discharge Current Testing (25°C)		20 I ₂₀ rate (33A,27min)	38min
		60 I ₂₀ rate (99A,7min)	10min
Internal Resistance		Full Charged Battery 25°C	8.5mΩ
Capacity Affected By Temperature		40°C	104%
		25°C	100%
		0°C	83%
		-15°C	65%
Residual Capacity (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)			9.85Kg

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

Residual Capacity



Discharge Current 25°C

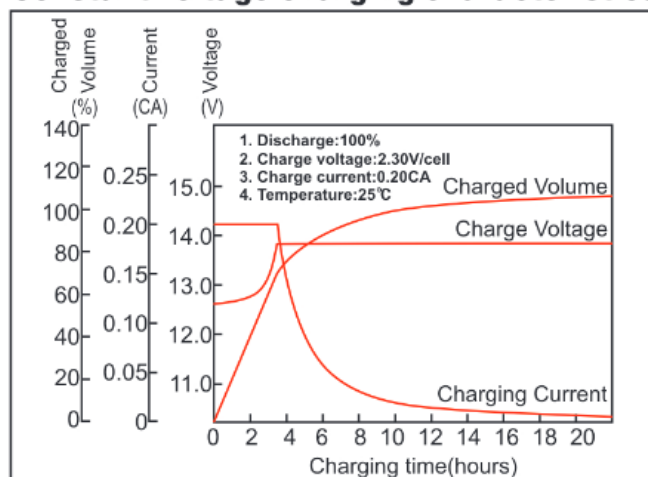




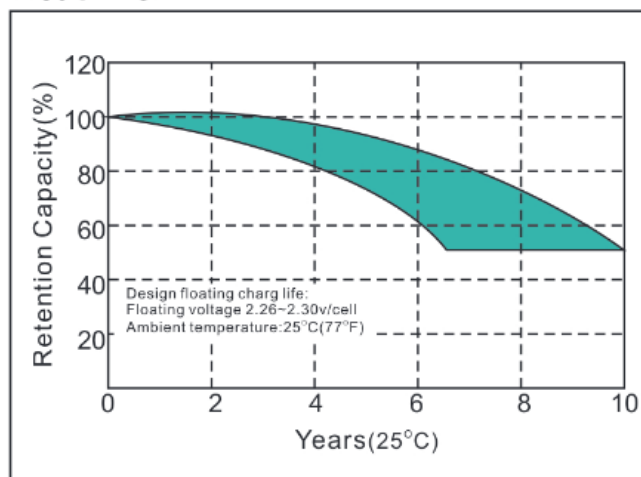
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Constant voltage charging characteristics



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

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