



# SERIES "DG" VRLA-AGM GEL SEALED BATTERIES (AGM-GEL ENERGY STORE)

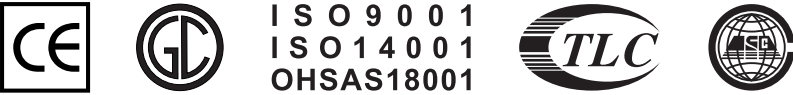
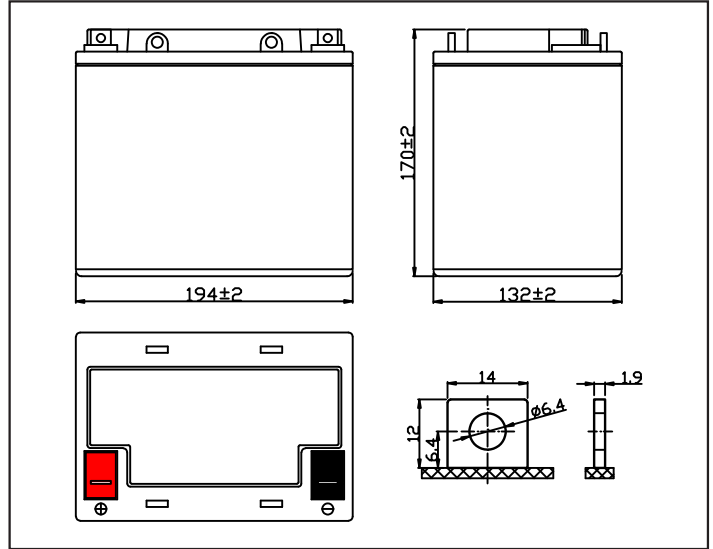
**MODEL: DG12-33 (12V 33AH@C20)**



Container Color  
 ■ Black C  
 ■ Grey 3 C

### Plane Chart:

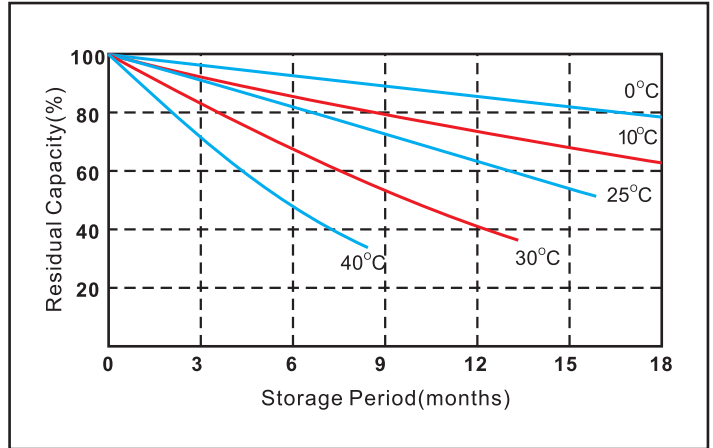
Unit:(mm) Terminal type:(L2)



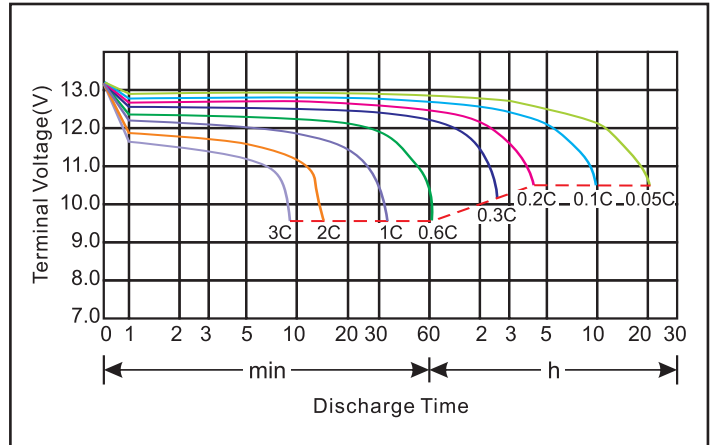
### Parameter Chart:

Volts		12V	
Capacity(25°C)	20 hours rate (3.3A)	33Ah	
Discharge Current Testing (25°C)	1 hours rate (18.2A)	19Ah	
	3 hours rate (8.2A)	26Ah	
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)		9.9Kg	

### Residual Capacity



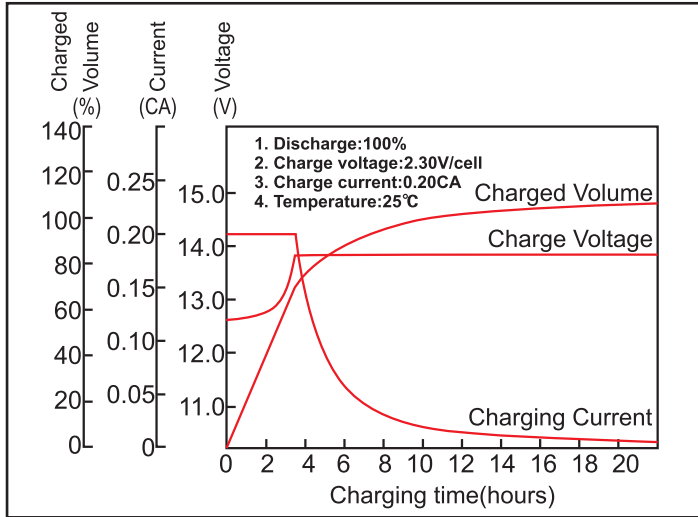
### Discharge Current 25°C



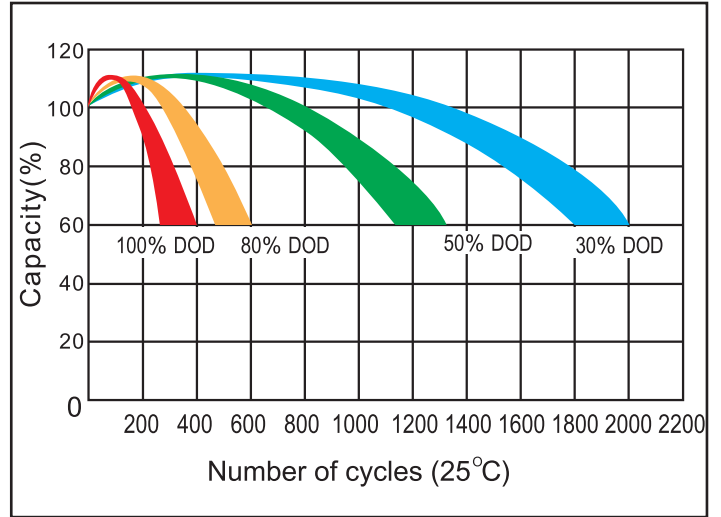
★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

**MODEL: DG12-33 (12V 33AH@C20)**

**Constant voltage charging characteristics**



**Cycle service life in relation to the depth of discharge**



**Constant Current Discharge Characteristics (A, 25°C)**

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	113.3	72.6	59.7	35.0	21.4	12.4	9.1	6.3	4.1	3.4	1.8
10.2V	108.2	69.0	57.3	33.6	20.6	12.2	8.9	6.1	4.1	3.3	1.7
10.5V	104.9	67.0	55.8	32.8	20.1	12.1	8.7	6.0	4.1	3.3	1.7
10.8V	101.6	64.9	54.4	31.9	19.6	12.0	8.5	5.9	4.0	3.3	1.7

**Constant Power Discharge Characteristics (Watt, 25°C)**

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	1189.7	784.9	656.1	392.4	244.1	143.3	107.1	73.9	49.1	41.2	21.5
10.2V	1134.0	745.7	629.3	376.0	234.8	141.2	104.0	72.4	48.7	41.0	21.2
10.5V	1100.0	723.1	613.4	367.2	223.0	140.1	102.0	71.3	48.4	40.8	21.0
10.8V	1066.1	700.4	597.4	358.4	211.2	138.6	99.9	70.2	48.0	40.6	20.8

**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.