



# 12 VOLT RECHARGEABLE SERIES

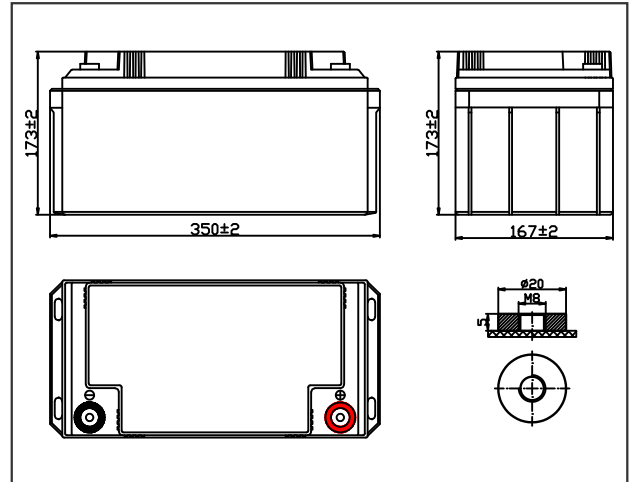
**MODEL: TP65-12**

**Product Code: VRLA-1265001**



**Plane Chart:**

Unit:(mm) Terminal type:(T3)



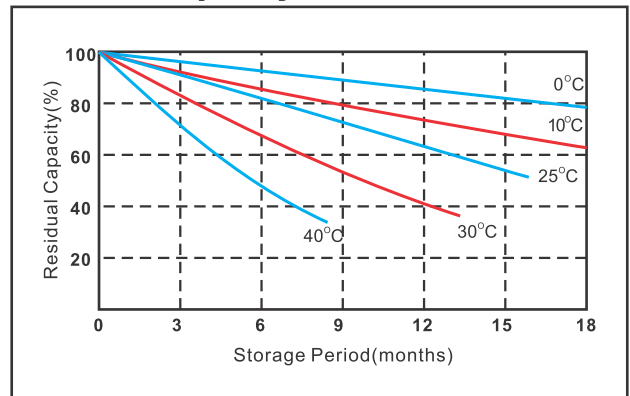
ISO 9001  
 ISO 14001  
 OHSAS18001



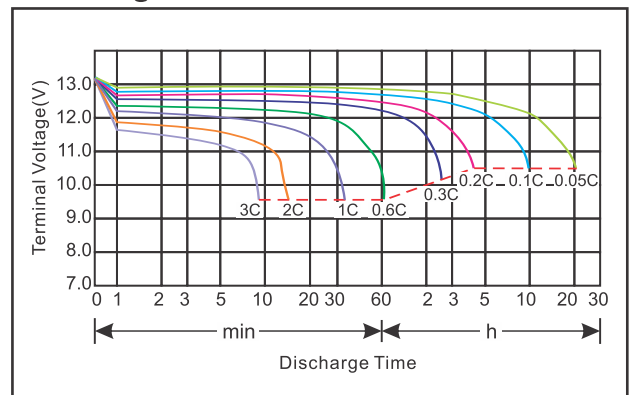
**Parameter Chart:**

Volts		12V	
Capacity(25°C)	20 hours rate (3.25A)	65Ah	
Discharge Current Testing (25°C)	1 hours rate (35.7A)	36Ah	
	3 hours rate (16.2A)	49Ah	
Internal Resistance	Full Charged Battery 25°C	6.3mΩ	
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 19.5A Voltage 14.5~14.9V	
	Float (25°C)	Charge Voltage 13.6~13.8V	
Weight (Approx)		19.2Kg	

**Residual Capacity**



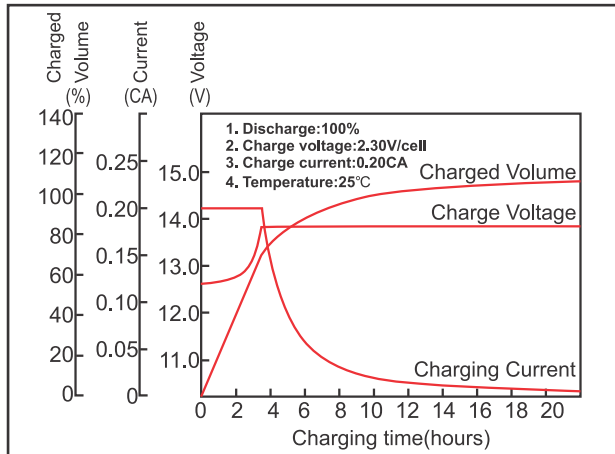
**Discharge Current 25°C**



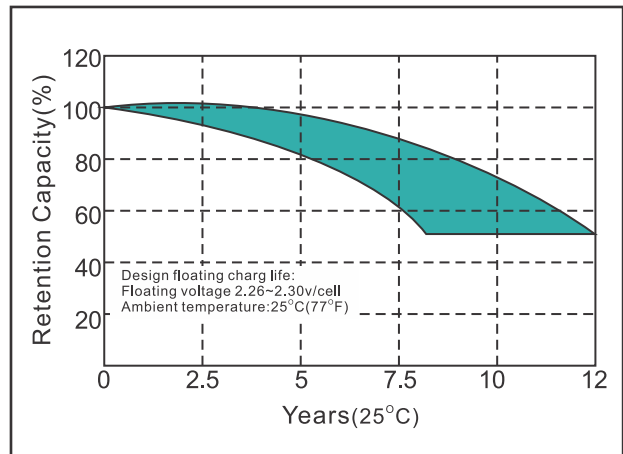
**MODEL: TP65-12**

Product Code : VRLA-1265001

**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	197.2	137.6	105.8	64.4	39.4	22.8	16.1	11.3	7.6	6.4	3.4
10.2V	187.6	130.8	102.0	61.9	37.9	22.5	15.9	11.1	7.5	6.3	3.3
10.5V	182.8	127.0	99.1	60.6	37.0	22.3	15.7	11.0	7.5	6.3	3.3
10.8V	176.0	123.1	96.2	58.8	36.0	22.0	15.6	10.9	7.4	6.2	3.2

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

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	2071.0	1485.2	1162.0	723.4	449.2	263.6	188.5	132.7	90.3	76.4	40.8
10.2V	1967.1	1411.1	1114.9	694.5	431.9	259.7	186.6	130.8	89.6	75.8	40.4
10.5V	1919.0	1370.7	1087.0	679.1	421.3	257.8	184.7	129.9	89.1	74.9	39.9
10.8V	1848.8	1326.5	1060.0	659.9	409.8	254.9	183.7	128.9	88.2	74.6	39.5

**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
AGM Battery	12V	46%	66%	76%	83%	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.