

VIGOR BATTERY

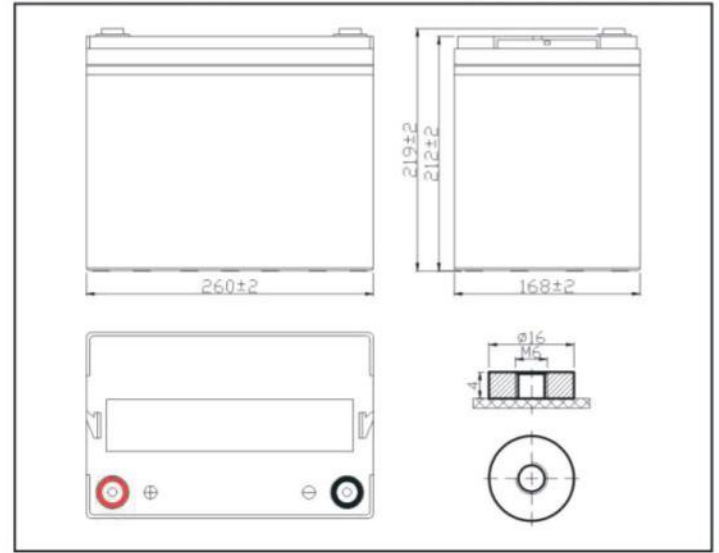
VALVE REGULATED LEAD ACID BATTERY

Model No : NP 80 -12 12 V 80 AH



Plane Chart:

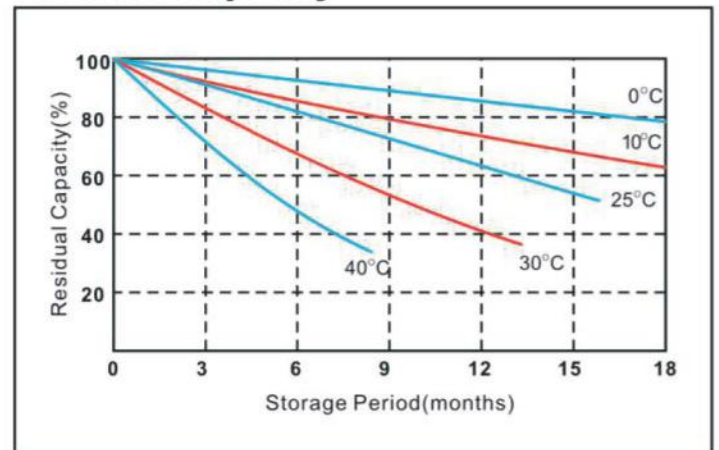
Unit:(mm) Terminal type:(T1)



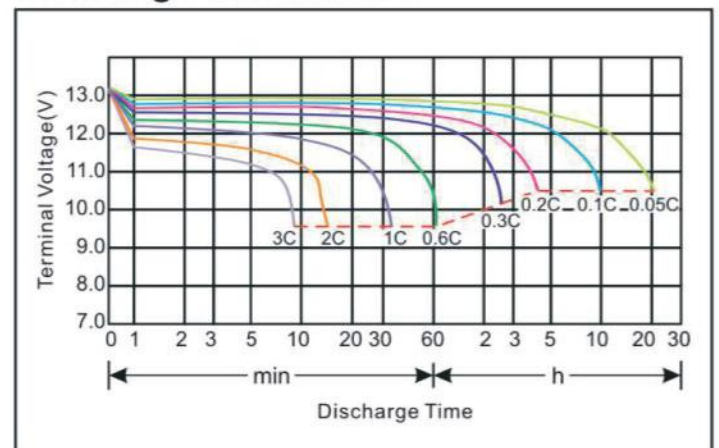
Parameter Chart:

Volts		12V
Capacity(25°C)	(K10) 10 hours rate (8 A)	80Ah
Discharge Current Testing (25°C)	1 hours rate (46.7A)	47Ah
	3 hours rate (21.2A)	65Ah
Internal Resistance	Full Charged Battery 25°C	4.5mΩ
Capacity Affected By Temperature	50°C	104%
	25°C	100%
	0°C	83%
	-20°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 25.5A Voltage 14.5~14.9V
	Float (25°C)	Charge Voltage 13.6~13.8V
Weight (+-%2)		22.3 Kg.

Residual Capacity



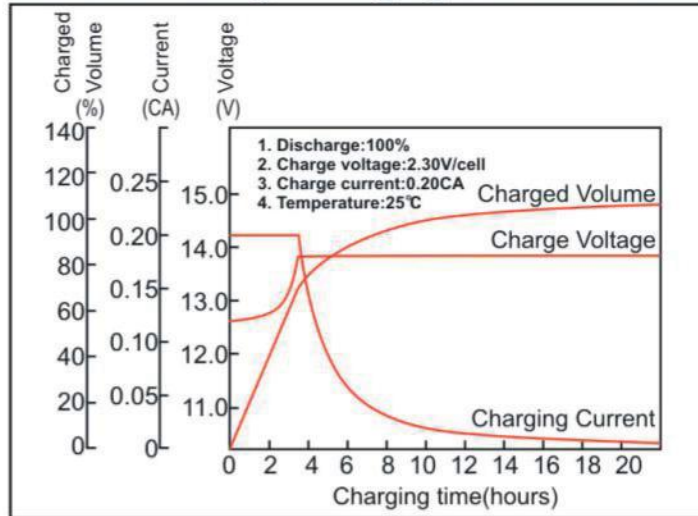
Discharge Current 25°C



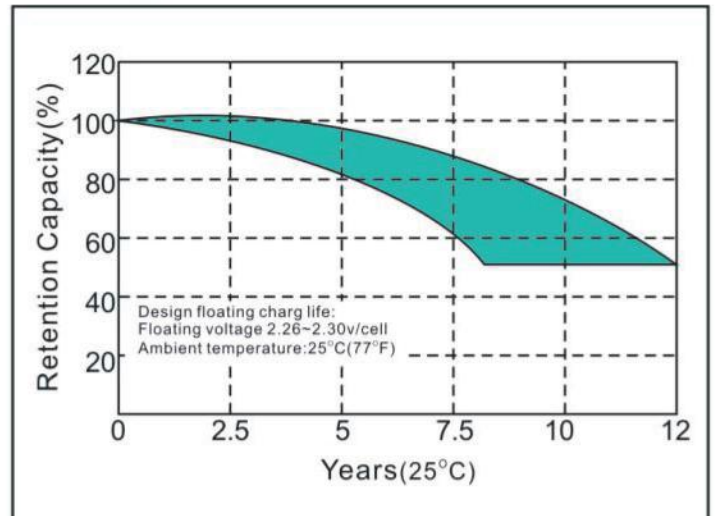
★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

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Constant voltage charging characteristics



Float Life



Constant Current Discharge Characteristics(A,25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	264.48	174	134	80,4	49,4	29,2	21,1	16,8	14,4	9,87	8,14	4,32
9.90V	256.88	169	131	78,8	48,7	29,1	20,9	16,7	14,3	9,82	8,13	4,31
10.2V	246.24	162	126	76,4	47,5	28,8	20,8	16,6	14,2	9,75	8,10	4,30
10.5V	235.6	155	122	74,5	46,0	28,4	20,6	16,5	14,1	9,68	8,06	4,27
10.8V	221.92	146	116	71,8	44,5	27,6	20,0	16,0	13,7	9,39	8,00	4,24

Constant Power Discharge Characteristic(Watt,25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2863.68	1884	1476	902	564	339	248	198	170	117	97,2	51,8
9.90V	2777.04	1827	1440	884	555	337	246	197	169	117	97,0	51,7
10.2V	2663.04	1752	1387	857	541	334	244	195	168	116	96,8	51,5
10.5V	2547.52	1676	1340	836	524	329	243	194	166	115	96,2	51,2
10.8V	2404.64	1582	1269	806	507	320	235	188	161	112	95,5	50,9

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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MSDS