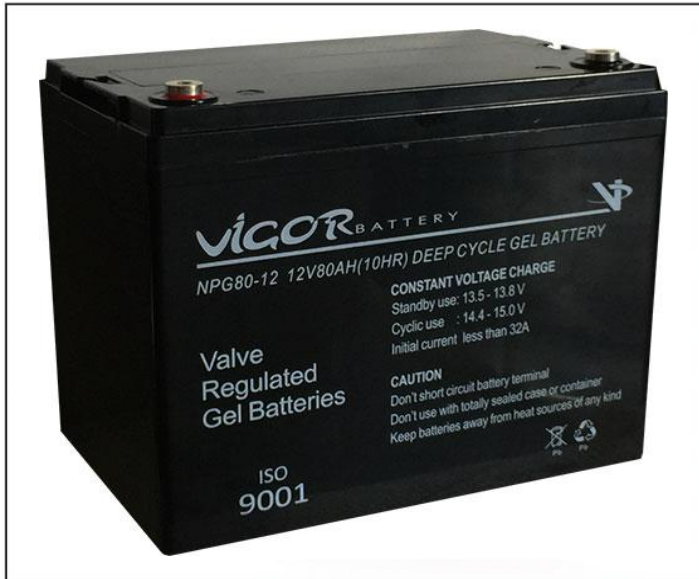


VIGOR BATTERY

VALVE REGULATED LEAD ACID BATTERY

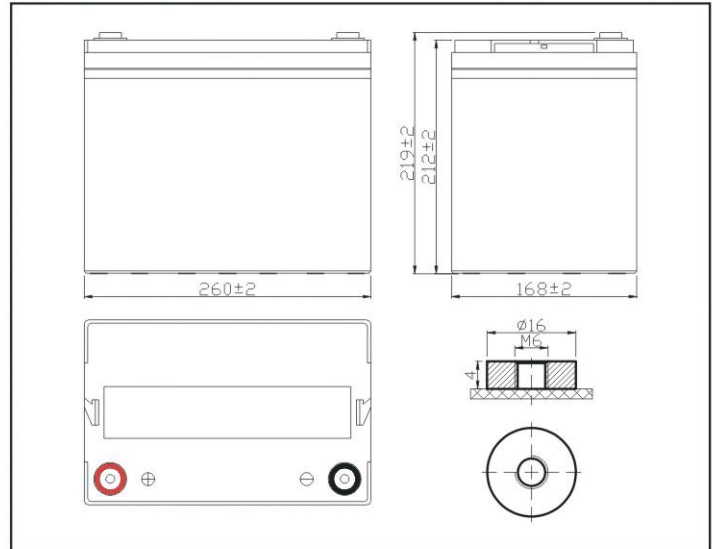
Model No : NPG 80 -12 12 V 80 AH

DEEP CYCLE GEL BATTERY



Plane Chart:

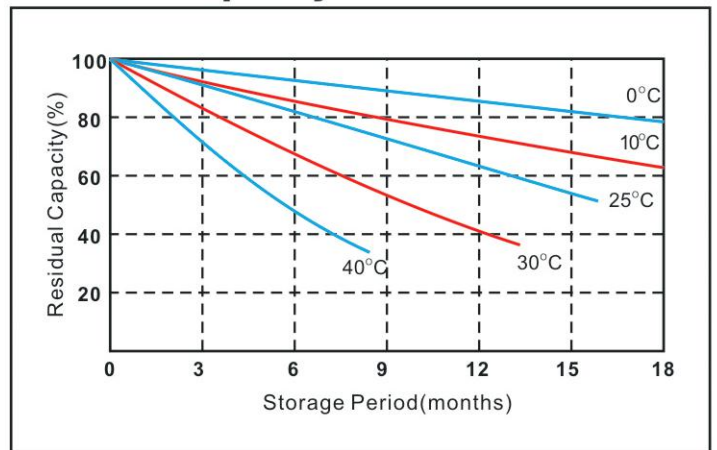
Unit:(mm) Terminal type:(T1)



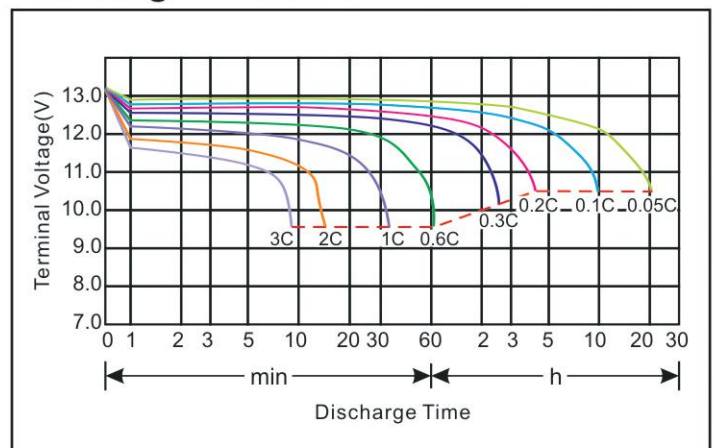
Parameter Chart:

Volts		12V	
Capacity(25°C)	10 hours rate (8A)	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	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 25.5A Voltage 14.5~14.9V	
	Float (25°C)	Charge Voltage 13.6~13.8V	

Residual Capacity

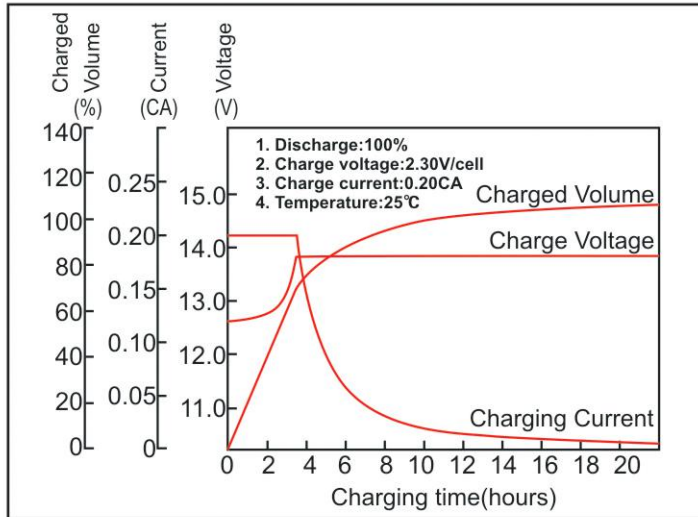


Discharge Current 25°C

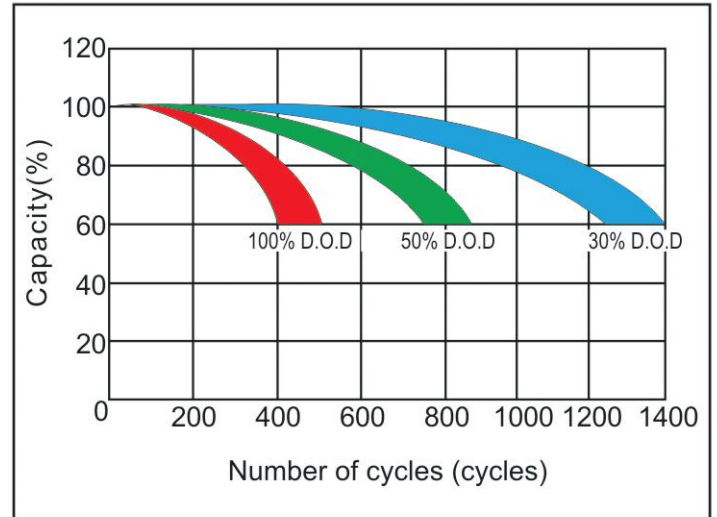


★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

Constant voltage charging characteristics



Cycle service life in relation to the depth of discharge



Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	156	128	77,6	48,0	29,2	20,8	16,3	13,9	9,79	8,14	4,32
9.90V	151	125	76,0	47,3	29,1	20,7	16,2	13,8	9,73	8,13	4,31
10.2V	145	120	73,7	46,1	28,8	20,5	16,1	13,7	9,67	8,10	4,30
10.5V	139	116	71,9	44,6	28,4	20,4	16,0	13,6	9,60	8,06	4,27
10.8V	131	110	69,3	43,2	27,6	20,0	15,5	13,2	9,31	8,00	4,24

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1685	1405	871	547	339	245	192	164	116	97,2	51,8
9.90V	1634	1372	853	539	337	243	191	163	116	97,0	51,7
10.2V	1567	1321	827	525	334	242	189	162	115	96,8	51,5
10.5V	1499	1276	807	509	329	240	188	161	114	96,2	51,2
10.8V	1415	1209	778	492	320	235	183	156	111	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
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.

