

VIGOR BATTERY

VALVE REGULATED LEAD ACID BATTERY

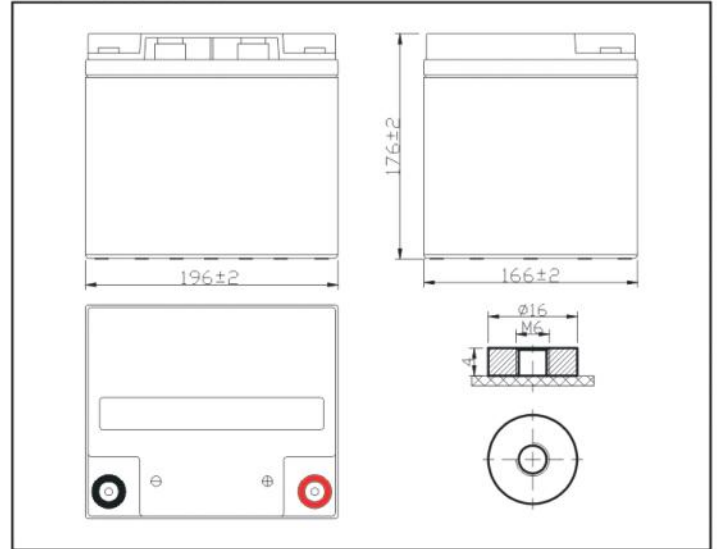
Model No : NPG 40 -12 12 V 40 AH

DEEP CYCLE GEL BATTERY



Plane Chart:

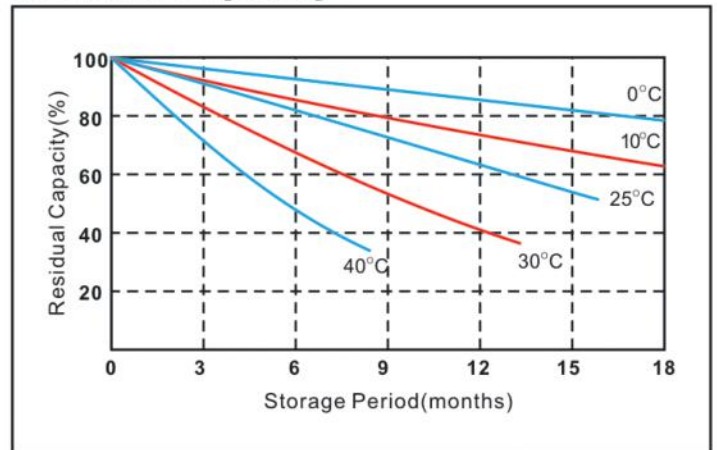
Unit:(mm) Terminal type:(T1)



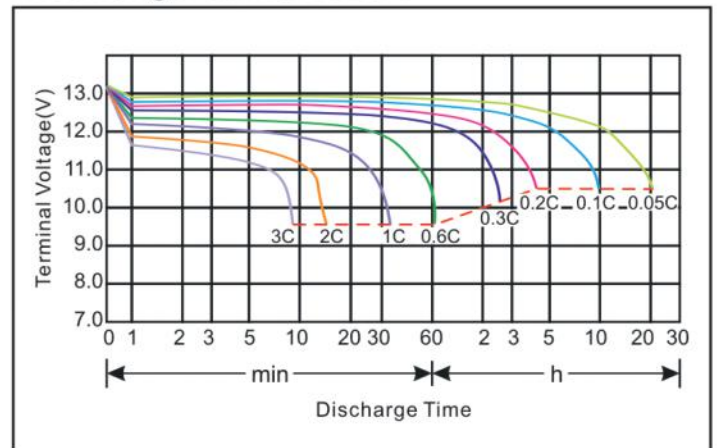
Parameter Chart:

Volts		12V	
Capacity(25°C)	10 hours rate (4A)	40Ah	
Discharge Current Testing (25°C)	1 hours rate (20.9A)	22Ah	
	3 hours rate (9.5A)	30Ah	
Internal Resistance	Full Charged Battery 25°C	7mΩ	
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 11.4A Voltage 14.5~14.9V	
	Float (25°C)	Charge Voltage 13.6~13.8V	

Residual Capacity



Discharge Current 25°C

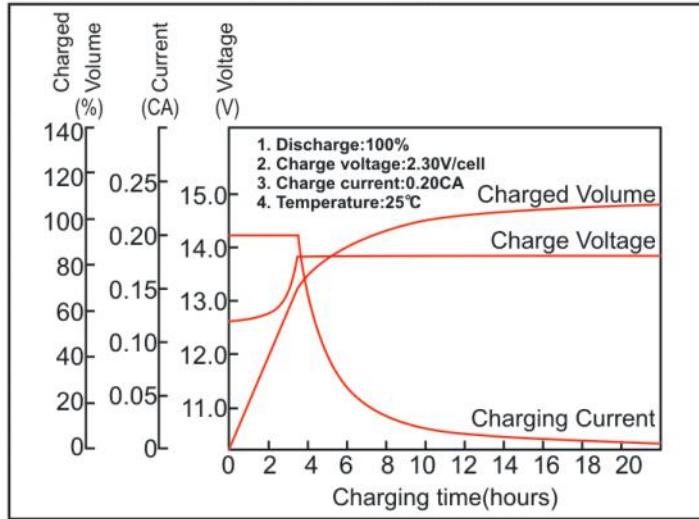


★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

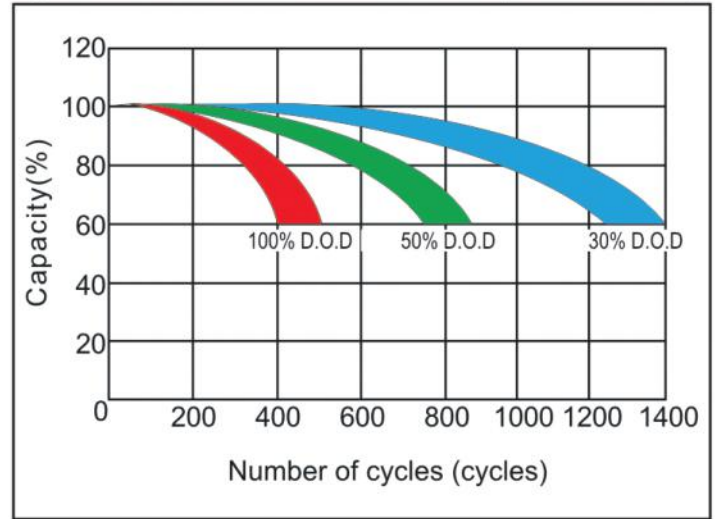
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Constant voltage charging characteristics



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	78,0	64,0	38,8	24,0	14,6	10,4	8,16	6,94	4,90	4,07	2,16
9.90V	75,7	62,5	38,0	23,6	14,5	10,3	8,11	6,90	4,87	4,06	2,15
10.2V	72,5	60,2	36,9	23,0	14,4	10,3	8,06	6,85	4,83	4,05	2,15
10.5V	69,4	58,1	36,0	22,3	14,2	10,2	8,00	6,80	4,80	4,03	2,13
10.8V	65,5	55,0	34,6	21,6	13,8	10,0	7,76	6,60	4,66	4,00	2,12

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	842	703	435	274	169	122	96,0	82,0	58,2	48,6	25,9
9.90V	817	686	427	269	168	122	95,4	81,5	57,8	48,5	25,8
10.2V	783	661	414	263	167	121	94,7	80,9	57,4	48,4	25,8
10.5V	750	638	404	254	164	120	94,1	80,4	57,0	48,1	25,6
10.8V	708	604	389	246	160	118	91,3	78,0	55,3	47,8	25,4

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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MSDS