

VIGOR BATTERY

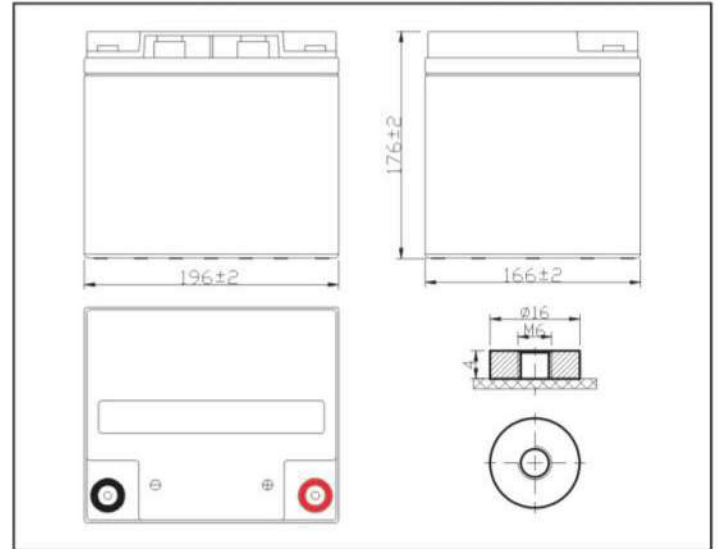
VALVE REGULATED LEAD ACID BATTERY

Model No : NP 40 -12 12 V 40 AH



Plane Chart:

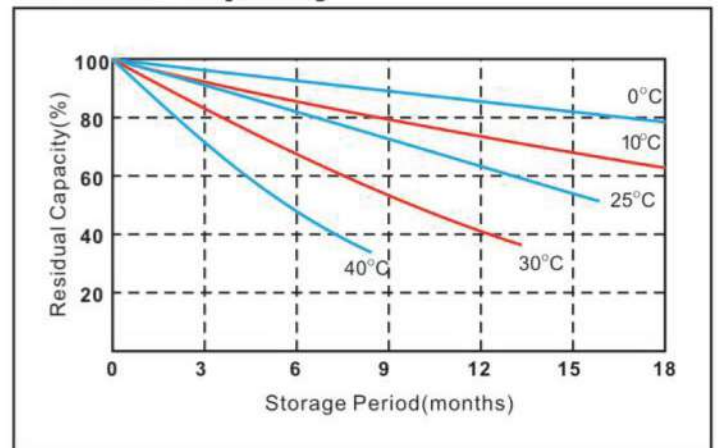
Unit:(mm) Terminal type:(T1)



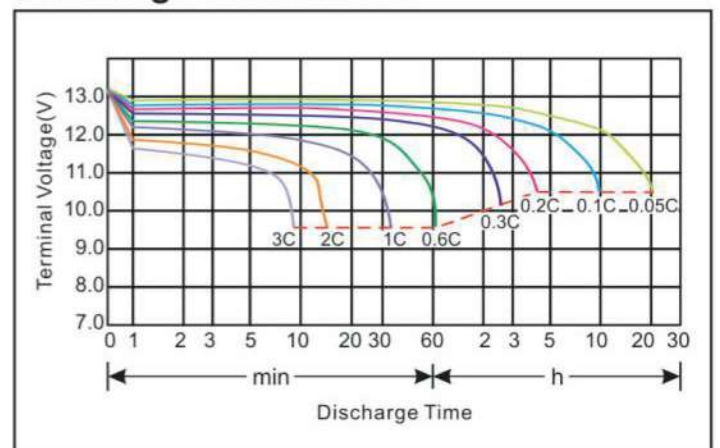
Parameter Chart:

Volts		12V	
Capacity(25°C)	(K10) 10 hours rate (4 A)	40Ah	
Discharge Current Testing (25°C)	20 I ₂₀ rate (40A,27min)	30min	
	60 I ₂₀ rate (120A,7min)	7min	
Internal Resistance	Full Charged Battery 25°C	7mΩ	
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 12A Voltage 14.5~14.9V	
	Float (25°C)	Charge Voltage 13.6~13.8V	
Weight (+-%2)		11.80 Kg.	

Residual Capacity



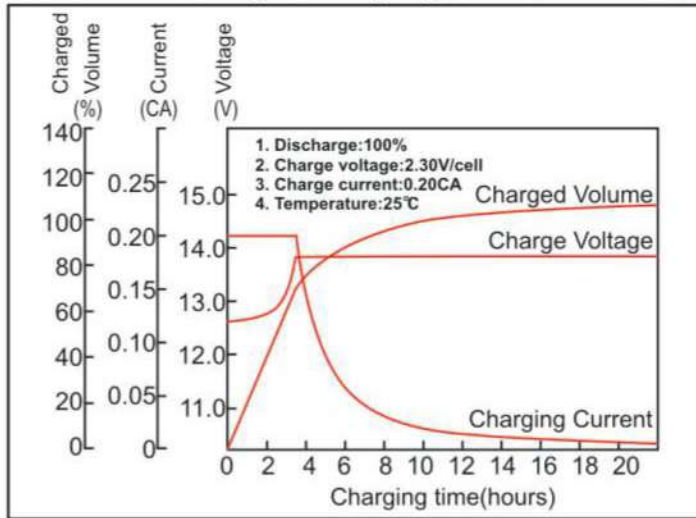
Discharge Current 25°C



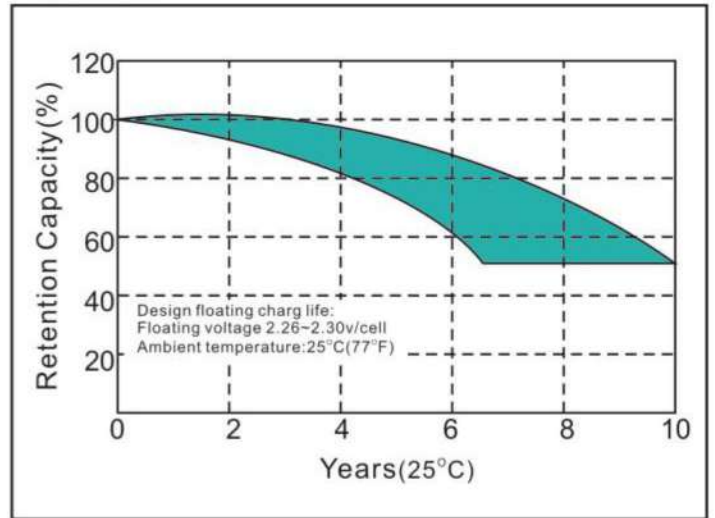
★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

Model No : NP 40 -12 12 V 40 AH

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	132.5	87.2	67,2	40,2	24,7	14,6	10,5	8,40	7,18	4,94	4,07	2,16
9.90V	128.59	84.6	65,6	39,4	24,3	14,5	10,5	8,36	7,14	4,91	4,06	2,15
10.2V	123,3	81.1	63,2	38,2	23,7	14,4	10,4	8,30	7,09	4,87	4,05	2,15
10.5V	117.95	77.6	61,0	37,3	23,0	14,2	10,3	8,24	7,04	4,84	4,03	2,13
10.8V	111.26	73.2	57,8	35,9	22,2	13,8	10,0	7,99	6,83	4,69	4,00	2,12

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1431.84	942	738	451	282	169	124	98,8	84,9	58,6	48,6	25,9
9.90V	1389.28	914	720	442	278	168	123	98,3	84,4	58,3	48,5	25,8
10.2V	1331.52	876	694	428	271	167	122	97,6	83,8	57,9	48,4	25,8
10.5V	1273.76	848	670	418	262	164	121	96,9	83,2	57,5	48,1	25,6
10.8V	1202.32	791	635	403	254	160	118	94,0	80,7	55,8	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
Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

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MSDS