



● NPG GEL Series Battery

NPG Series batteries are designed with special separator and GEL deep cycle technology to give Extra-durable cyclic performance at extreme temperature.

NPG series Batteries are the DEEP CYCLE batteries with 18 years floating design life at 25 °C.

Meet with IEC, BS, JIS and Eurobat standard .

● Application

- *Emergency Power System
- *Communication equipment
- *Telecommunication systems
- *Uninterruptible power supplies
- *Electric bicycle and wheelchairs, etc
- *Power tools
- *Alarm system
- *Marine equipment
- *Fire and Security System
- *Solar and Wind System.

● General Features

- *Safety Sealing
- *Non-spillable construction
- *High Reliability and Stability
- *Sealed and Maintenance-free
- *Safety and Quality certification
- *Long Life and low self-discharge design

● Construction

- *PositiveLead dioxide
- *ElectrolyteSulfuric acid thixotropic gel
- *SeparatorMacromolecule polymer
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- *NegativeLead
- *Safety ValveEPDR
- *TerminalCopper

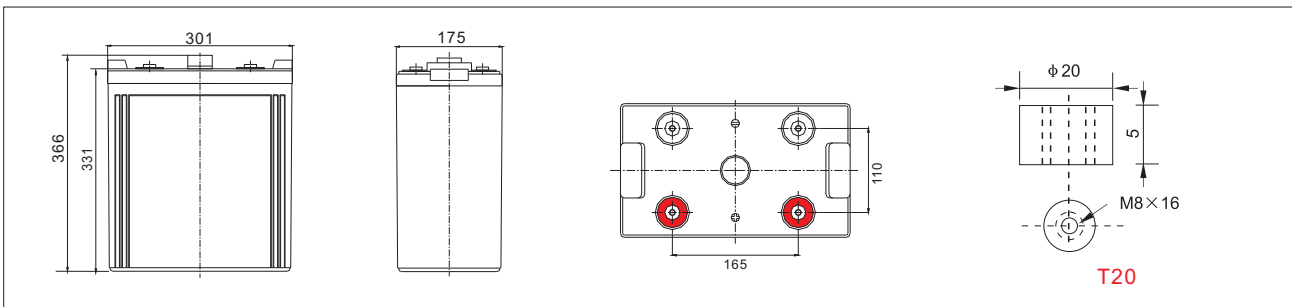


● Specification

Battery Model	Nominal Voltage		2V	
	Rated capacity(10 Hour rate)		600Ah	
Dimensions	Length	Width	Height	Total Height
	301mm (11.85 inches)	175mm(6.89 inches)	331mm(13.03 inches)	366mm (14.41 inches)
Approx Weight	41.0kg(90.39lbs)±3%			
Capacity 25°C (77°F)	10 Hour rate(60A,1.80V)	5 Hour rate (102A,1.75V)	3 Hour rate (150A,1.70V)	1 Hour rate (330A,1.60V)
	600Ah	510Ah	450Ah	330Ah
Max.discharge current	6000A(5 Sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 0.35mΩ			
Capacity affected by Temp. (10 HR)	40°C (104 °F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge at 25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method 25°C (77°F)	Cycle Use		Float Use	
	2.35-2.40V (Initial charging current less than 240A)		2.25-2.30V	

● Outer dimensions (mm)

● Terminal Type (mm)

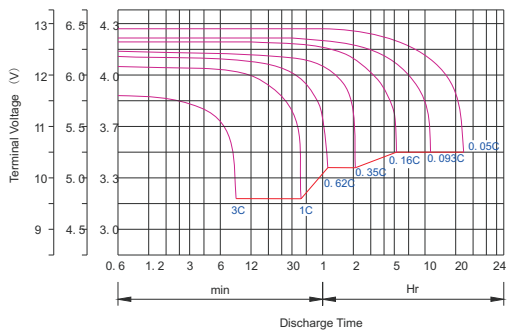


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

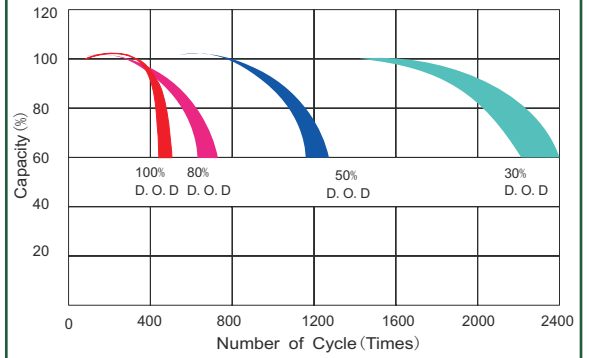
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	1922	1266	1021	684	360.0	210.0	154.2	120.0	99.0	70.2	63.0	34.0
	W	3305	2253	1824	1226	648.0	384.3	286.0	225.0	187.6	134.1	121.3	65.9
1.70V	A	1861	1142	961	654	338.4	200.4	150.0	117.0	97.2	68.4	61.8	33.0
	W	3313	2126	1793	1224	637.9	385.0	289.5	226.7	188.9	133.4	121.0	64.5
1.75V	A	1801	1022	841	612	327.6	195.6	146.4	115.2	96.0	67.8	60.6	33.0
	W	3277	1937	1599	1174	632.3	378.1	284.3	224.6	187.6	132.9	119.5	65.0
1.80V	A	1735	963	781	564	316.8	190.8	142.8	113.4	93.6	66.0	60.0	32.4
	W	3245	1851	1500	1089	614.6	372.4	280.6	223.2	184.4	130.4	118.9	64.3
1.85V	A	1677	902	721	504	306.0	186.0	138.0	110.4	91.2	64.2	57.0	30.6
	W	3170	1742	1399	983	599.8	366.4	273.2	219.1	181.4	128.1	114.7	61.8



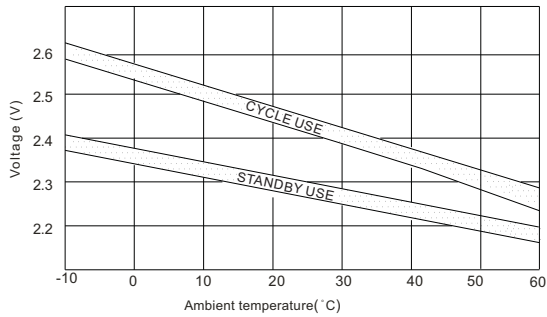
Discharge characteristic Curve



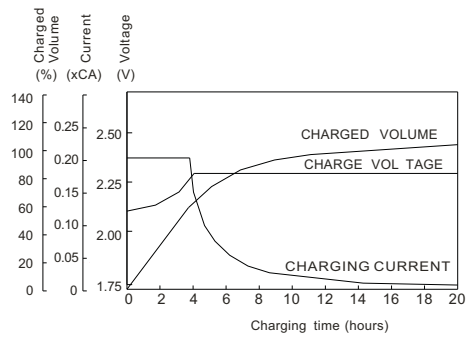
Cycle service life in relation to depth of discharge



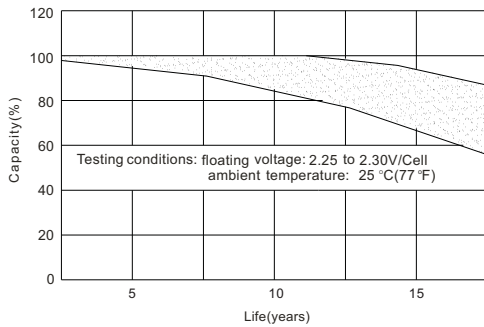
Relationship between charging voltage and temperature



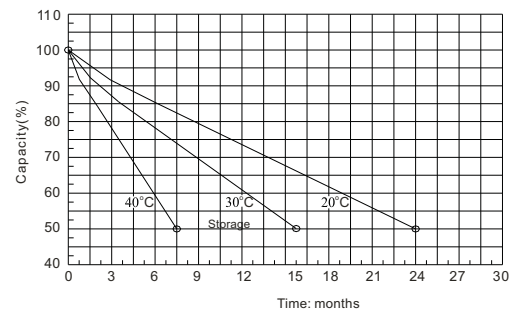
Constant voltage charging characteristic (0.25CA, at 25°C)



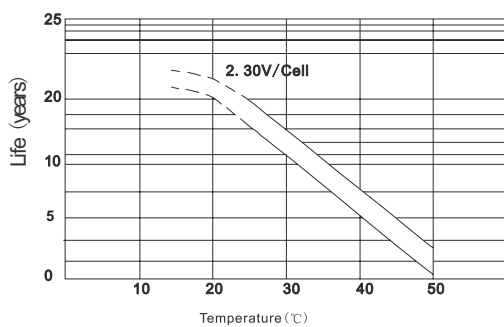
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

