



● 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

● Specification

● Construction

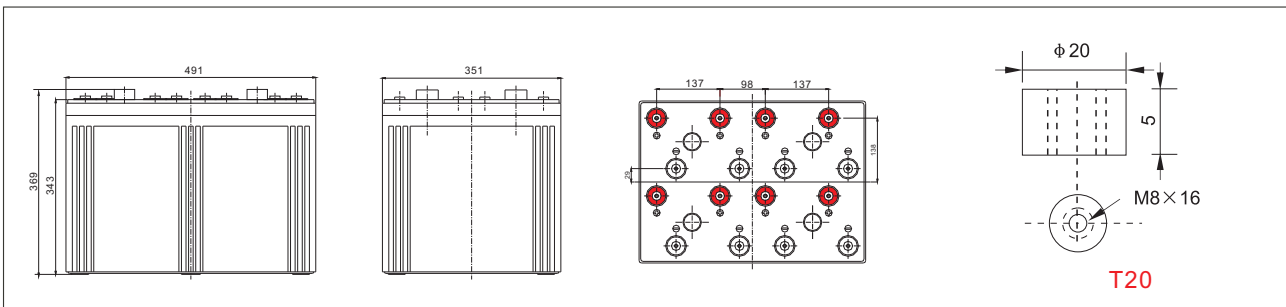
- *PositiveLead dioxide
- *ElectrolyteSulfuric acid thixotropic gel
- *SeparatorMacromolecule polymer
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- *NegativeLead
- *Safety ValveEPDR
- *TerminalCopper



Battery Model	Nominal Voltage 2V			
	Rated capacity(10 Hour rate) 2000Ah			
Dimensions	Length	Width	Height	Total Height
	491mm (19.33 inches)	351mm(13.82 inches)	343mm(13.50 inches)	369mm (14.53 inches)
Approx Weight	136.0kg(299.83lbs)±3%			
Capacity 25 °C (77°F)	10 Hour rate(200A,1.80V)	5 Hour rate (340A,1.75V)	3 Hour rate (500A,1.70V)	1 Hour rate (1100A,1.60V)
	2000Ah	1700Ah	1500Ah	1100Ah
Max. discharge current	20000A(5 Sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 0.12mΩ			
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 800A)		2.25-2.30V	

● Outer dimensions (mm)

● Terminal Type (mm)

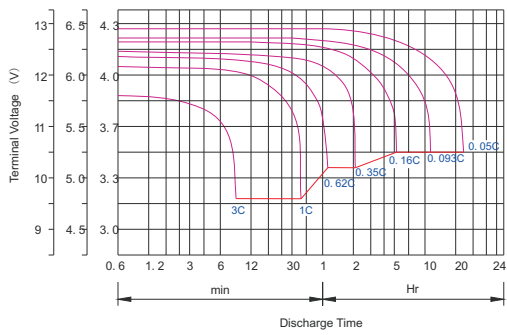


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25 °C (77°F)

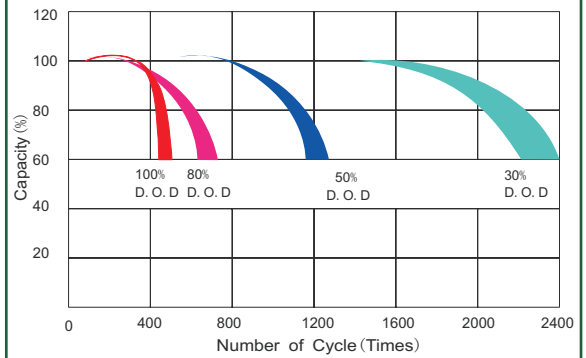
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	6406	4220	3402	2280	1200.0	700.0	514.0	400.0	330.0	234.0	210.0	113.4
	W	11018	7512	6079	4086	2160.0	1281.0	953.5	750.0	625.4	446.9	404.3	219.8
1.70V	A	6204	3808	3204	2180	1128.0	668.0	500.0	390.0	324.0	228.0	206.0	110.0
	W	11043	7087	5975	4079	2126.3	1283.2	965.0	755.8	629.5	444.6	403.3	215.1
1.75V	A	6002	3406	2802	2040	1092.0	652.0	488.0	384.0	320.0	226.0	202.0	110.0
	W	10924	6458	5329	3913	2107.6	1260.3	947.7	748.8	625.3	443.0	398.3	216.7
1.80V	A	5784	3210	2604	1880	1056.0	636.0	476.0	378.0	312.0	220.0	200.0	108.0
	W	10816	6170	5000	3630	2048.6	1241.5	935.3	743.9	614.6	434.5	396.2	214.4
1.85V	A	5590	3008	2404	1680	1020.0	620.0	460.0	368.0	304.0	214.0	190.0	102.0
	W	10565	5805	4664	3276	1999.2	1221.4	910.8	730.5	604.7	427.1	382.3	206.0



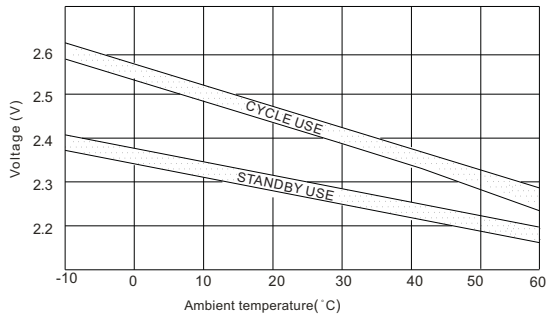
Discharge characteristic Curve



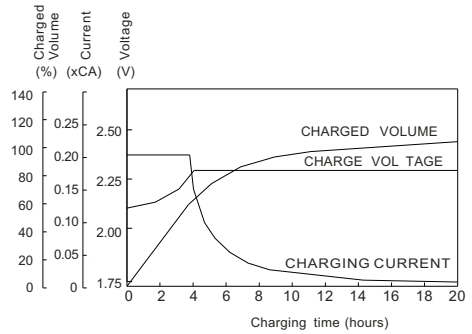
Cycle service life in relation to depth of discharge



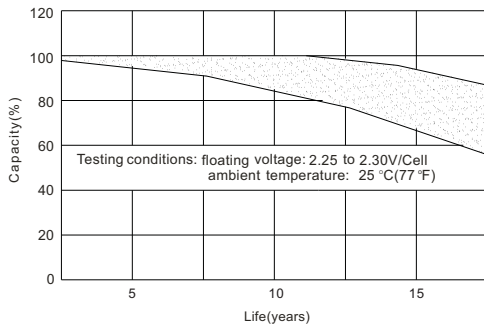
Relationship between charging voltage and temperature



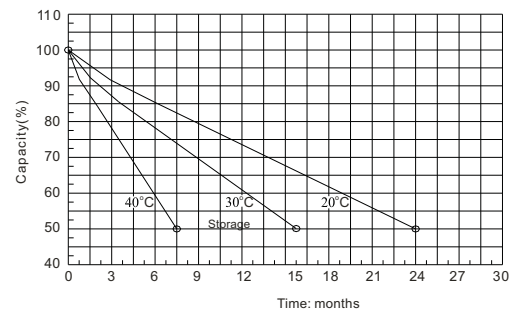
Constant voltage charging characteristic (0.25CA, at 25°C)



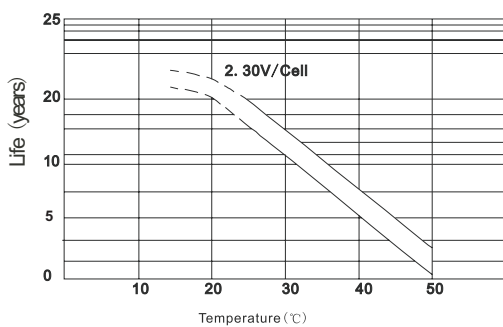
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

