



● 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 12 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
- *Solar power and wind power systems
- *Power tools
- *Power station
- *Marine equipment
- *Fire and Security System
- *Electric vehicle and wheelchairs etc.

● General Features

- *Safety Sealing
- *Non-spillable construction
- *High Reliability and Stability
- *Sealed and Maintenance-free
- *Safety and Quality certification
- *Longer Life in deep cycle application

● Specification

● Construction

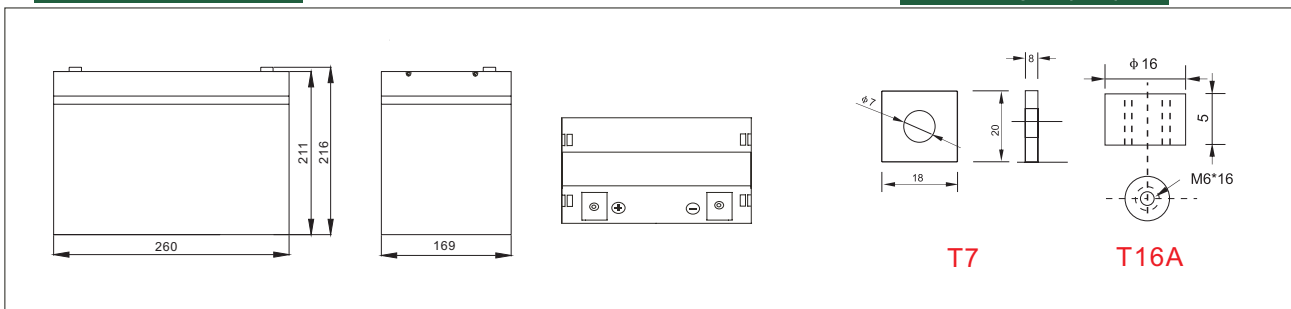
- *PositiveLead dioxide
- *ElectrolyteSulfuric acid thixotropic Gel
- *SeparatorMacromolecule polymer
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- *NegativeLead
- *Safety ValveEPDR
- *TerminalCopper



Battery Model	Nominal Voltage		12V	
	Rated capacity(20 Hour rate)		70Ah	
Dimensions	Length	Width	Height	Total Height
	260mm(10.24inches)	169mm(6.65inches)	211mm(8.31 inches)	216mm(8.50 inches)
Approx Weight	23.0kg(50.71lbs) ±3%			
Capacity 25°C (77°F)	20 hour rate (3.5A,10.8V)	10 hour (6.4A,10.5V)	5 Hour (11.9A,10.2V)	1 Hour (42.0A,9.6V)
	70.0Ah	64.0Ah	59.5Ah	42.0Ah
Max.discharge current	700A(5 Sec.)			
Internal Resistance	Full charged at 25 °C: Approx 10.5mΩ			
Capacity affected by Temp. (20 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	
	14.10-14.40V(Initial charging current less than 25.6A)		13.50-13.80V	

● Outer dimensions (mm)

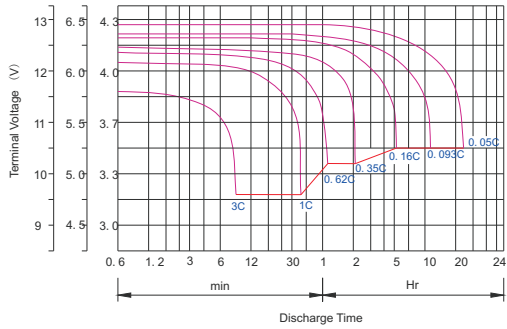
● Terminal Type (mm)



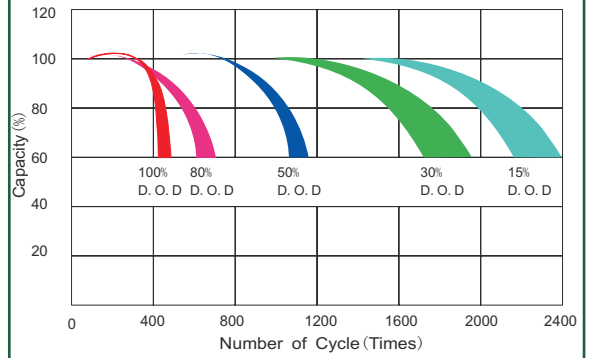
Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25°C (77°F)													
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
9. 60V	A	205.00	135.00	109.00	73.00	38.00	22.00	16.40	12.80	10.60	7.50	6.70	3.60
	W	2116.00	1442.00	1167.00	784.00	415.00	246.00	183.10	144.00	120.10	85.80	77.60	42.20
10. 20V	A	199.00	122.00	103.00	70.00	36.00	21.00	16.00	12.50	10.40	7.30	6.60	3.50
	W	2120.00	1361.00	1147.00	783.00	408.00	246.00	185.30	145.10	120.90	85.40	77.40	41.30
10. 50V	A	192.00	109.00	90.00	65.00	35.00	21.00	15.60	12.30	10.20	7.20	6.50	3.50
	W	2097.00	1240.00	1023.00	751.00	405.00	242.00	182.00	143.80	120.10	85.00	76.50	41.60
10. 80V	A	185.00	103.00	83.00	60.00	34.00	20.00	15.20	12.10	10.00	7.00	6.40	3.50
	W	2077.00	1185.00	960.00	697.00	393.00	238.00	179.60	142.80	118.00	83.40	76.10	41.20
11. 10V	A	179.00	96.00	77.00	54.00	33.00	20.00	14.70	11.80	9.70	6.80	6.10	3.30
	W	2028.00	1115.00	895.00	629.00	384.00	235.00	174.90	140.30	116.10	82.00	73.40	39.60



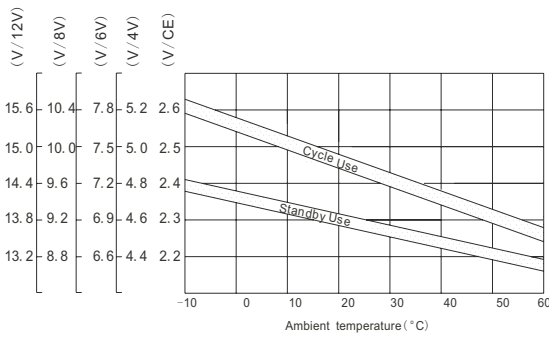
Discharge characteristic Curve



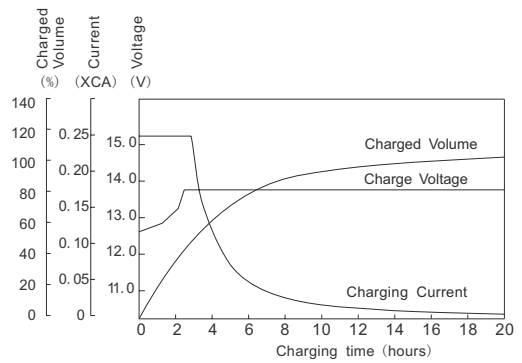
Cycle service life in relation to depth of discharge



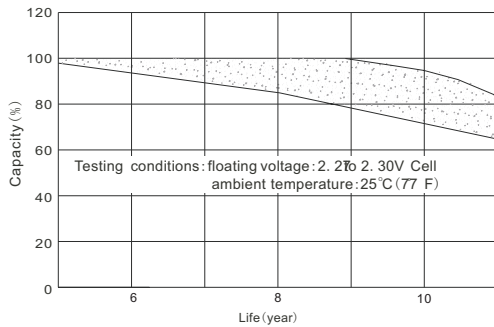
Relationship between charging voltage and temperature



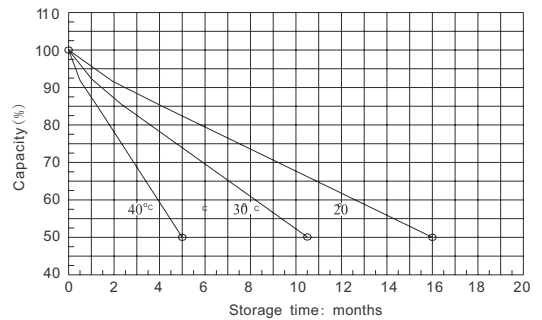
Constant voltage charging characteristic (0.25CA, at 25°C)



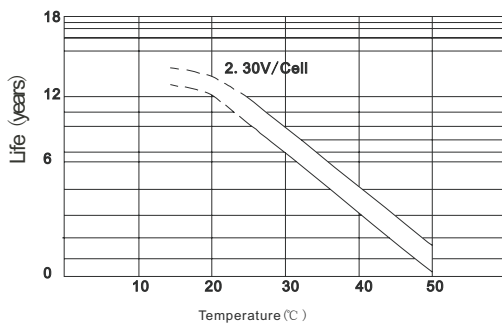
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

