

NPL SERIES —Medium-size Battery

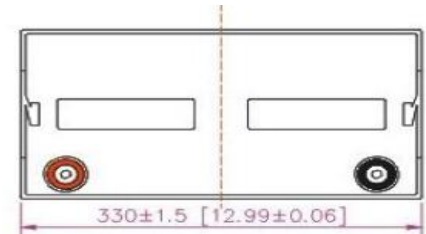
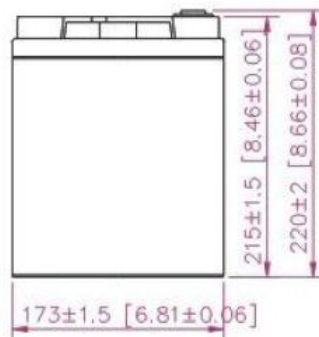
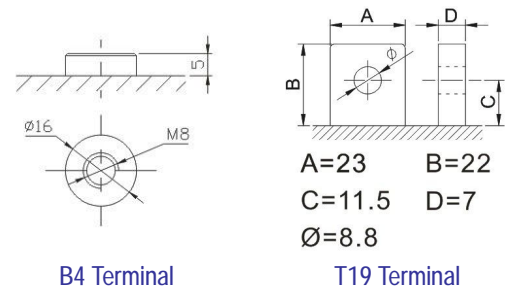
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 8 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

Application:

- Telecommunications
- Alarm and security system
- Uninterruptable Power Supply (UPS)
- Communication power supply
- Electric Power System (EPS)
- DC power supply
- Emergency backup power supply
- Auto control system

Construction:

- ComponentRaw material
- SealantEpoxy
- PositiveLead dioxide
- Safety valve Rubber
- NegativeLead
- TerminalCopper/Pb
- ContainerABS
- SeparatorFiber glass
- CoverABS
- Electrolyte Sulfuric acid

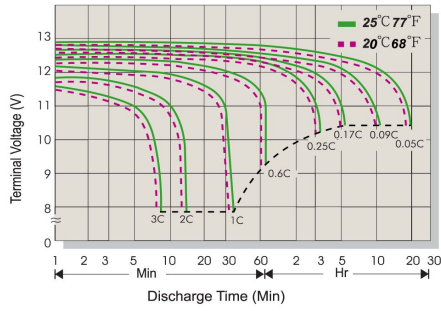


Speification:

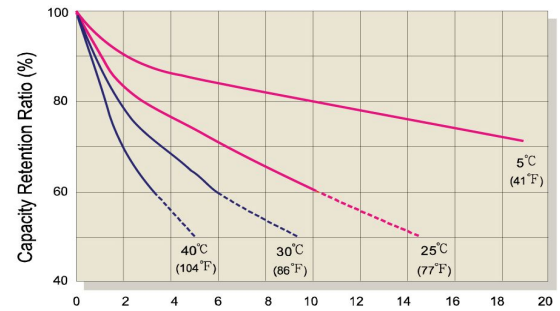
Battery Model	NPL121000M 12V100AH			
Designed Floating Life	Up to 10 Years			
Capacity (25°C)	20HR(5.0A,10.5V)	10HR(9.30A,10.5V)	5HR(16.0A,10.5V)	1HR(56.0A,10.5V)
	100.0AH	93.0AH	80.0AH	56.0AH
Dimensions	Length	Width	Height	Total Height
	330MM	173MM	217MM	220MM
Approx. Weight	28.20KGS(62.04 lbs) +/-5%			
Internal Resistance	Full charged at 25°C: ≤6.5mΩ			
Self Discharge	2% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-14.6V(-30mV/°C), max. Current:30A		13.6-13.8V (-20mV/°C)	



Terminal Voltage (V) and Discharge Time



Capacity Retention Characteristic



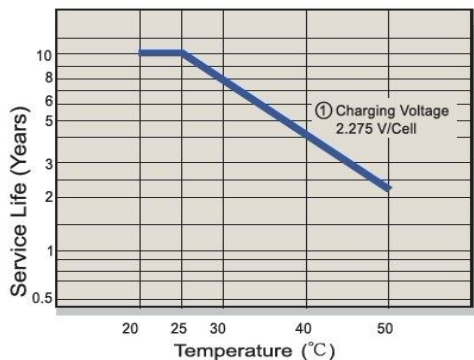
Battery Voltage and Charge Time for standby Use



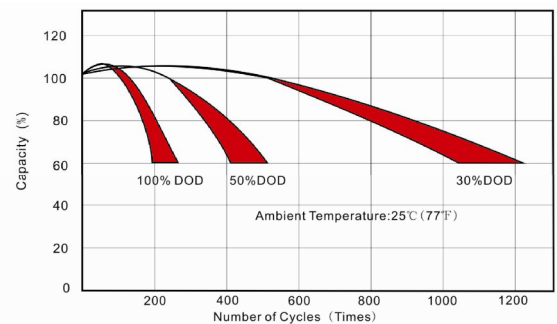
Battery Voltage and Charge Time for Cycle use



Tickle(or Float) Service Life



Cycle Service Life



Constant Current Discharge(CC,Unit:A) at 25°C(77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	226.0	166.4	144.5	87.2	51.4	30.2	22.6	19.01	15.65	14.40	9.60	4.90
1.80V/Cell	234.6	172.8	150.0	90.5	53.5	31.5	23.5	19.80	16.30	15.00	10.00	5.00
1.75V/Cell	258.1	181.4	157.5	94.1	55.6	32.4	24.2	20.00	16.46	15.15	10.10	5.05
1.70V/Cell	288.6	190.1	165.0	98.6	56.7	33.1	24.7	20.20	16.63	15.30	10.20	5.10
1.67V/Cell	319.1	198.7	172.5	101.4	58.9	34.0	25.4	20.39	16.79	15.45	10.30	5.15

Constant Power Discharge (CP,Unit:W) at 25°C(77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	429.3	316.2	274.5	165.6	97.6	57.5	42.9	36.12	29.73	27.36	18.24	9.30
1.80V/Cell	445.7	328.3	285.0	172.0	101.7	59.9	44.7	37.62	30.97	28.50	19.00	9.50
1.75V/Cell	490.3	344.7	299.3	178.8	105.7	61.6	46.0	38.00	31.28	28.79	19.19	9.60
1.70V/Cell	548.3	361.2	313.5	187.4	107.7	62.8	46.9	38.37	31.59	29.07	19.38	9.69
1.67V/Cell	606.2	377.6	327.8	192.6	111.8	64.6	48.2	38.75	31.90	29.36	19.57	9.79