

### Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	150Ah@10hr-rate (15.0A to 1.80V/cell @25°C)
Weight	Approx.44.5Kg
Terminal	M8,Φ=16&18
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	154.2Ah 20hr-rate (7.71A to 1.80V/cell @25°C) 150.0Ah 10hr-rate (15.0A to 1.80V/cell @25°C) 125.5Ah 5hr-rate (25.10A to 1.75V/cell @25°C) 91.5Ah 1hr-rate (91.5A to 1.60V/cell @25°C)
Max. Discharge Current	750A(5sec)
Internal Resistance	Approx.3.4mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C Charge : -20°C~50°C Storage : -40°C~60°C
Cycle Use	Charging Current: ≤30.0A Voltage:14.2V ~14.4V Temperature compensation:-30mV/°C
Standby Use	Charging Current:No limit Voltage:13.6V ~13.8V Temperature compensation:-20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)

### Introduction

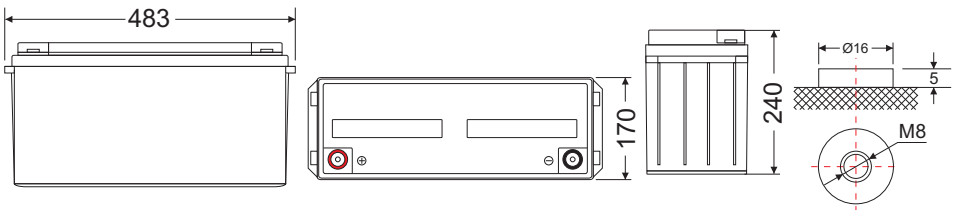
The NIMAC GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 30% compared with other normal AGM batteries.

### Applications

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

### Dimensions

Length	483±1mm (19.02 inches)
Width	170±1mm (6.69 inches)
Height	240±1mm (9.45 inches)
Total Height	240±1mm (9.45 inches)



Unit: mm

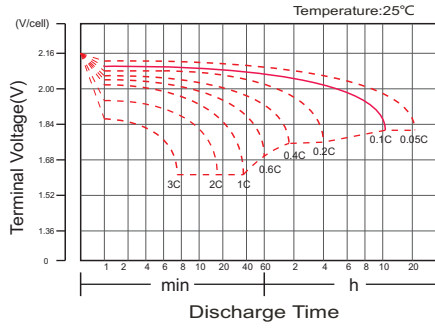
### Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	496.7	355.9	259.0	162.6	91.89	52.46	36.90	30.54	25.72	18.26	15.72	8.314
1.65V/cell	483.4	338.7	253.7	159.9	91.47	52.06	36.76	30.39	25.56	18.11	15.57	8.163
1.70V/cell	455.6	326.7	249.7	158.5	90.62	51.67	36.47	30.25	25.41	17.96	15.42	8.012
1.75V/cell	409.1	301.5	237.7	154.5	89.77	51.28	36.33	29.97	25.11	17.81	15.27	7.861
1.80V/cell	369.2	274.9	219.1	147.7	87.65	50.36	35.34	29.26	24.66	17.51	15.12	7.710
1.85V/cell	321.4	245.7	196.6	138.4	83.27	48.12	33.79	27.85	23.60	16.77	14.66	7.256

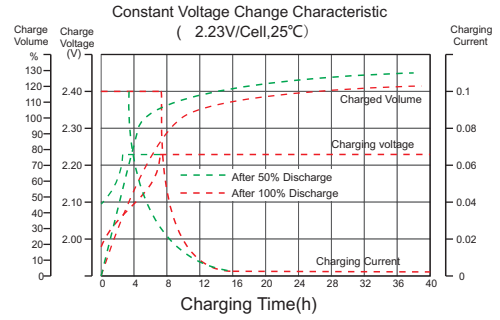
### Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	4731	3459	2547	1835	1051	603.5	425.8	352.9	297.7	211.8	176.8	93.38
1.65V/cell	4634	3304	2494	1812	1046	601.1	425.0	352.0	295.9	211.0	175.0	92.47
1.70V/cell	4375	3194	2460	1791	1038	595.6	422.4	350.3	295.0	209.2	174.1	91.56
1.75V/cell	3939	2951	2346	1750	1028	590.1	419.9	347.8	292.2	207.4	172.2	90.66
1.80V/cell	3543	2680	2156	1670	1003	581.4	409.7	338.4	287.7	202.9	170.4	89.75
1.85V/cell	3059	2380	1925	1565	950.0	554.6	389.3	322.3	273.2	195.8	165.0	86.12

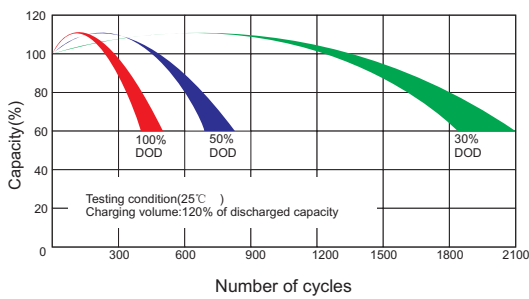
## Discharge Characteristics Curve



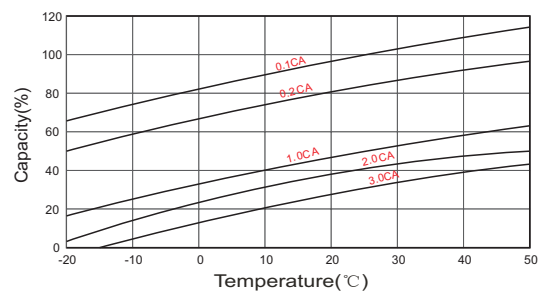
## Charging Characteristics Curve



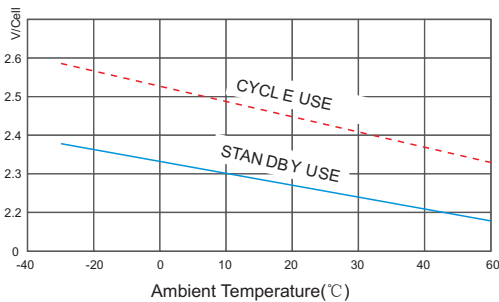
## Cycle life in relation to depth of Discharge



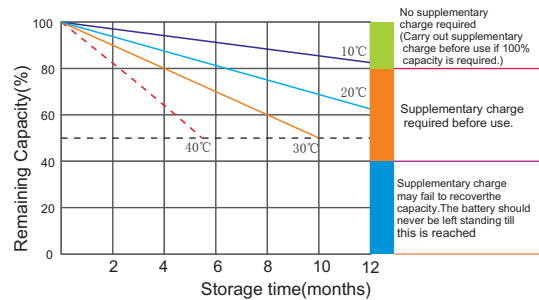
## Temperature effects on Capacity



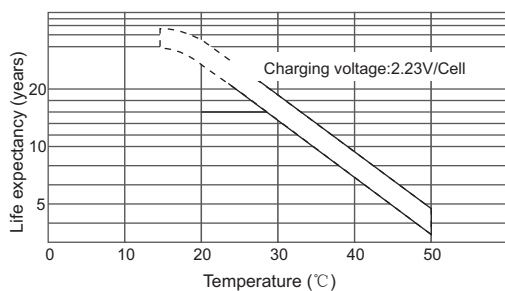
## Relationship between charging voltage and temperature



## Self-discharge Characteristics



## Temperature effects on Float life



## Life Characteristics of Standby use

