

**Specifications**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	100Ah@10hr-rate (10.0A to 1.80V/cell @25°C)
Weight	Approx.29.5Kg
Terminal	M6, Φ=14&18
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	103Ah 20hr-rate (5.15A to 1.80V/cell @25°C) 100Ah 10hr-rate (10.0A to 1.80V/cell @25°C) 86Ah 5hr-rate (17.2A to 1.75V/cell @25°C) 65Ah 1hr-rate (65.0A to 1.60V/cell @25°C)
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx.5 mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C Charge : -10°C~50°C Storage : -10°C~40°C
Cycle Use	Charging Current: ≤30.0A Voltage: 14.6V~14.8V  Temperature compensation: -30mV/°C
Standby Use	Charging Current: No limit Voltage: 13.6V~13.8V Temperature compensation: -20mV/°C
Self-Discharge	less than 3% at 25°C
Design Life	12 years (floating charge)

**Main Advantages**

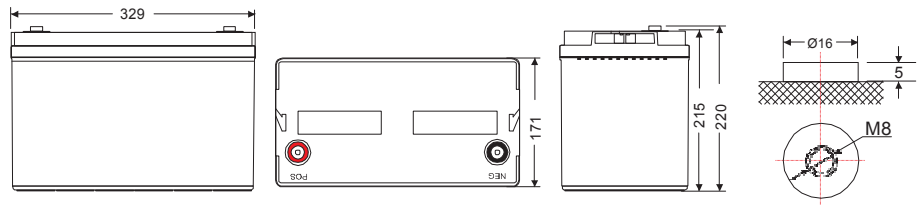
- >> Nano GEL technology
- >> super deep cycle design for renewable
- >> power excellent deep cycle discharge
- >> performance high power density
- >> Strong recovery ability from deep
- >> discharge 12 years design life

**Applications**

- >> Solar Power and Wind
- >> Power Telecom Power and DC Power
- >> Electric Power System
- >> Electronic instruments
- >> Standby power such as Data center or UPS
- >> Military system

**Dimension**

Length	329±1mm (12.95 inches)
Width	171±1mm (6.85 inches)
Height	215±1mm (8.50 inches)
Total Height	220±1mm (8.74 inches)



Unit: mm

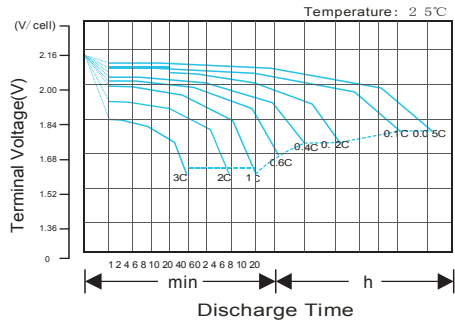
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	313.44	224.61	177.84	111.55	65.00	36.31	26.10	21.60	17.68	12.42	10.50	5.55
1.65V/cell	305.06	213.71	174.19	109.71	64.70	36.04	26.00	21.50	17.58	12.32	10.40	5.45
1.70V/cell	287.46	206.17	171.46	108.74	64.10	35.76	25.80	21.40	17.47	12.22	10.30	5.35
1.75V/cell	258.13	190.24	163.25	106.02	63.50	35.49	25.70	21.20	17.26	12.12	10.20	5.25
1.80V/cell	240.19	173.48	150.48	101.37	62.00	34.85	25.00	20.70	16.95	11.92	10.10	5.15
1.85V/cell	209.09	155.04	134.98	94.96	58.90	33.31	23.90	19.70	16.22	11.41	9.80	4.85

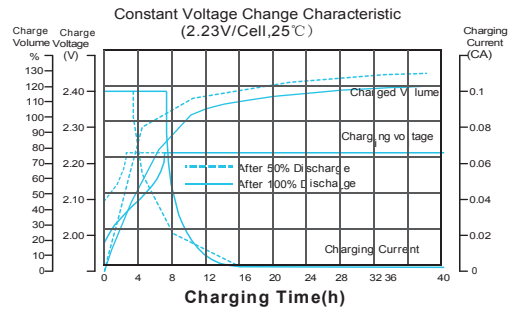
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	2985.3	2250.5	1875.4	1232.9	743.4	417.7	301.2	249.6	204.7	144.1	118.1	62.4
1.65V/cell	2924.3	2149.5	1836.4	1217.5	739.8	416.1	300.6	249.0	203.4	143.5	116.9	61.8
1.70V/cell	2760.4	2077.9	1811.5	1203.3	734.4	412.2	298.8	247.8	202.8	142.3	116.3	61.2
1.75V/cell	2485.7	1920.0	1727.3	1175.9	727.2	408.4	297.0	246.0	200.9	141.1	115.1	60.6
1.80V/cell	2305.1	1743.3	1587.1	1122.3	709.2	402.4	289.8	239.4	197.8	138.1	113.9	60.0
1.85V/cell	1989.8	1548.2	1417.2	1051.7	672.0	383.8	275.4	228.0	187.8	133.2	110.2	57.5

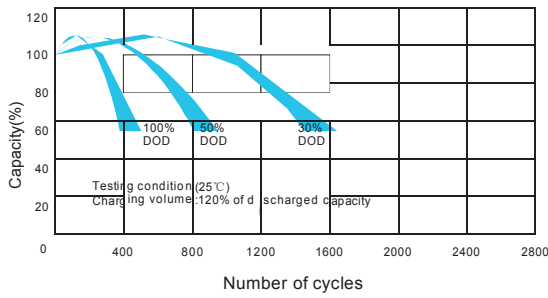
## Discharge Characteristics Curve



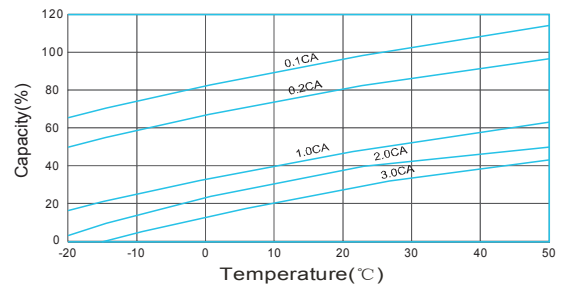
## Charging Characteristics Curve



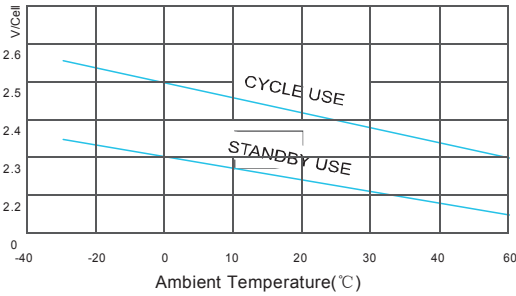
## Cycle life in relation to depth of Discharge



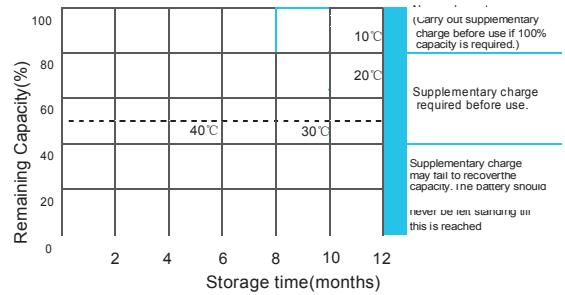
## Temperature effects on Capacity



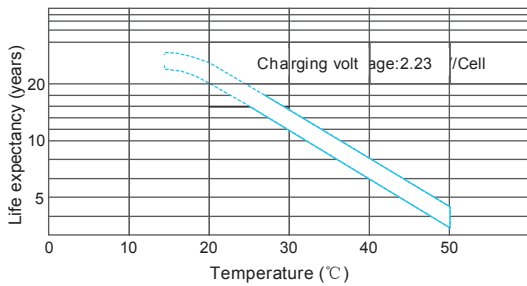
## Relationship between charging voltage and temperature



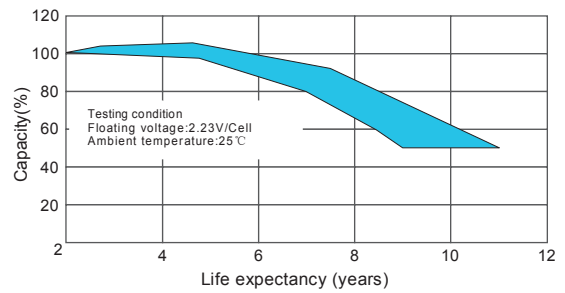
## Self-discharge Characteristics



## Temperature effects on Float life



## Life Characteristics of Standby use



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