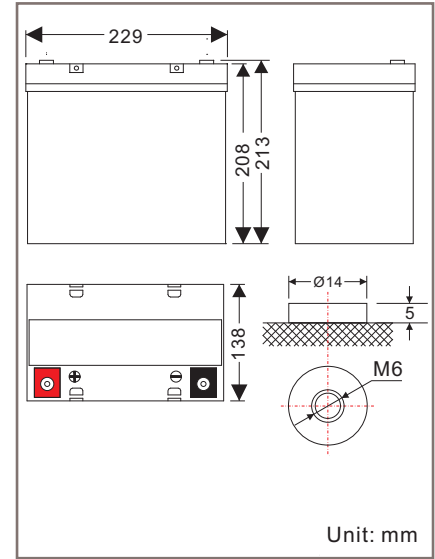


**SLA BATTERY—ELECTRIC VEHICLE SERIES**

**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	55Ah@ 10hr-rate (5.5A to 1.80V/cell @25°C)
Dimensions	Length 229±2mm (9.02 inches)
	Width 138±2mm (5.43 inches)
	Height 211±2mm (8.31 inches)
	Total Height 216±2mm (8.50 inches)
Weight	Approx. 18.0Kg
Terminal	M6, Ø=14
Rated Capacity	60.0Ah 20hr-rate (3.00A to 1.80V/cell @20°C)
	55.5Ah 10hr-rate (5.55A to 1.80V/cell @20°C)
	49.4Ah 5hr-rate (9.88A to 1.75V/cell @25°C)
	38.3Ah 1hr-rate (38.3A to 1.60V/cell @25°C)
CCA	355A
25A discharge characteristic	>85min to 1.75V/cell @25°C
75A discharge characteristic	>23min to 1.75V/cell @25°C
Max. Discharge Current	550A(5sec)
Internal Resistance	Approx. 7.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~60°C
	Charge : -15°C~60°C
	Storage : -20°C~60°C
Normal Operating Tem. Range	25±5°C
Cycle Use	Charging Current: ≤16.5A
	Voltage: 14.6V~14.8V
	Temperature compensation: -30mV/°C
Standby Use	Charging Current: No limit
	Voltage: 13.6V~13.8V
	Temperature compensation: -20mV/°C
Design Life	10 years (floating charge)



**Applications**

- ◆ Electric Vehicle
- ◆ Aerial Lifts and Fork Lifts
- ◆ Floor Machines and Robotics
- ◆ Electronic and Security
- ◆ Broadband and Cable TV(CATV)
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Mobility and Home Medical Equipment
- ◆ Electric Power System(EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

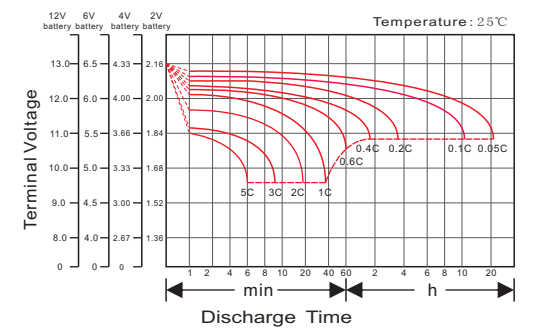
**Constant Current Discharge Characteristics: A (20°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	205.6	151.4	110.2	67.7	38.3	21.4	15.5	12.4	10.11	7.11	5.78	3.18
1.65V/cell	199.7	144.1	107.9	66.6	38.1	21.2	15.4	12.3	10.05	7.05	5.72	3.15
1.70V/cell	193.8	139.0	106.2	66.0	37.7	21.0	15.3	12.2	9.99	6.99	5.67	3.12
1.75V/cell	174.0	128.2	101.1	64.3	37.4	20.9	15.3	12.1	9.88	6.93	5.61	3.09
1.80V/cell	157.1	116.9	93.2	61.5	36.5	20.5	14.9	11.8	9.70	6.82	5.55	3.00
1.85V/cell	136.7	104.5	83.6	57.6	34.7	19.6	14.2	11.3	9.28	6.53	5.39	2.83

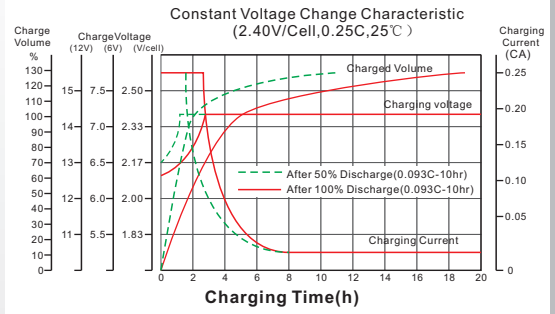
**Constant Current Discharge Characteristics: W (20°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	2157	1610	1185	726	437	246	178.9	142.8	117.1	82.4	65.0	35.69
1.65V/cell	2099	1538	1161	717	435	245	178.6	142.4	116.4	82.1	64.3	35.35
1.70V/cell	2036	1487	1145	708	432	243	177.5	141.7	116.0	81.4	64.0	35.00
1.75V/cell	1833	1374	1092	692	428	240	176.4	140.7	114.9	80.7	63.3	34.65
1.80V/cell	1649	1247	1003	660	417	237	172.1	136.9	113.1	79.0	62.6	34.31
1.85V/cell	1424	1108	896	619	395	226	163.6	130.4	107.4	76.2	60.6	32.92

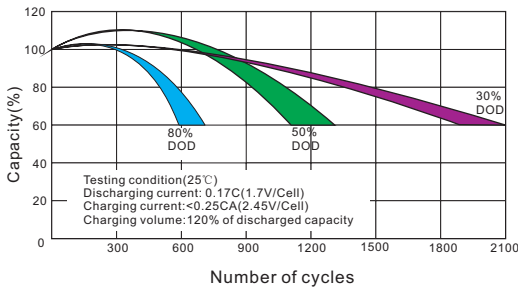
**Discharge Characteristics Curve**



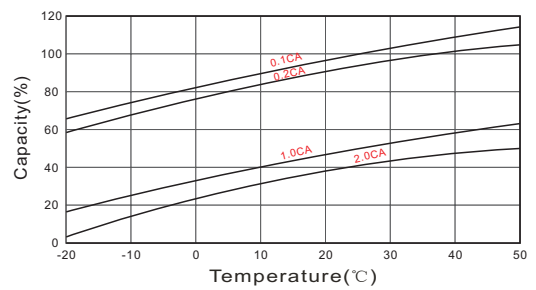
**Charging Characteristics Curve**



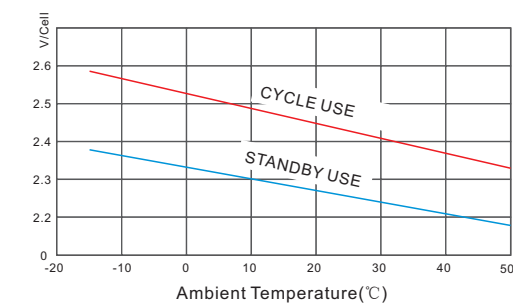
**Cycle life in relation to depth of Discharge**



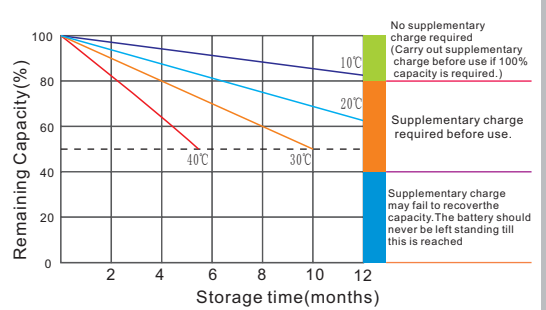
**Temperature effects on Capacity**



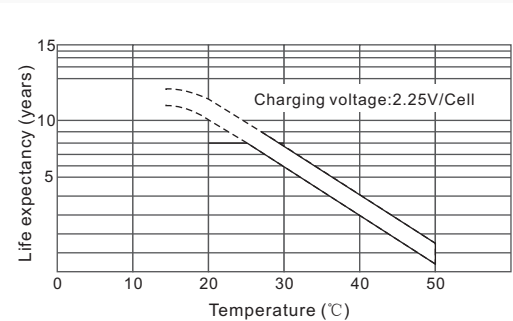
**Relationship between charging voltage and temperature**



**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**

