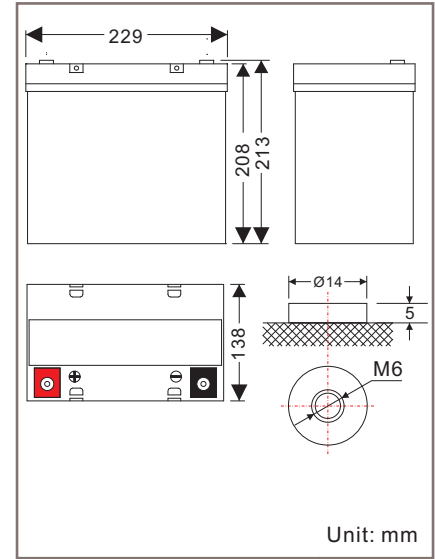


SLA BATTERY—ELECTRIC VEHICLE SERIES

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)
- ◆

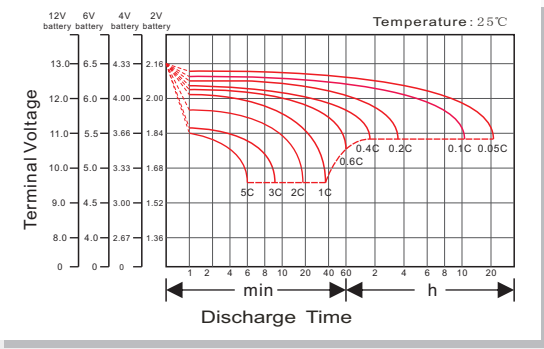
Constant Current Discharge Characteristics: A (20°C)

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

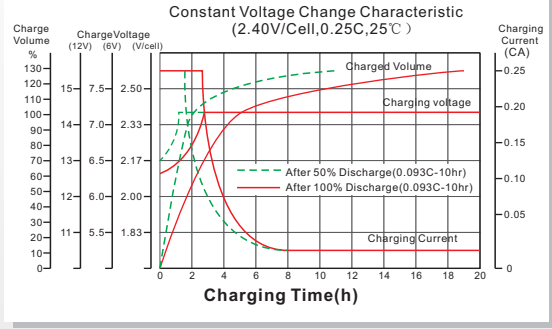
Constant Current Discharge Characteristics: W (20°C)

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

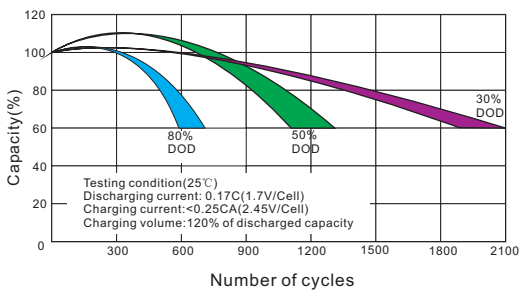
Discharge Characteristics Curve



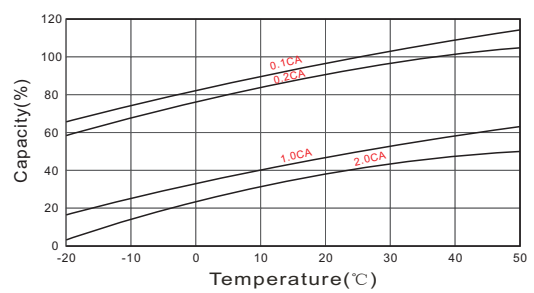
Charging Characteristics Curve



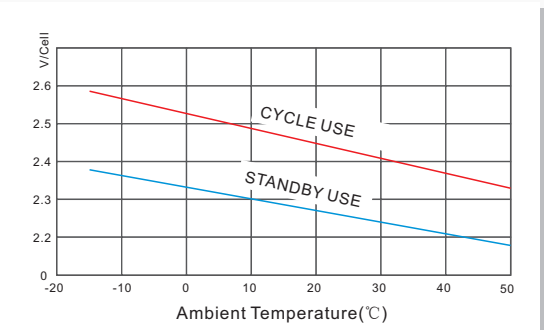
Cycle life in relation to depth of Discharge



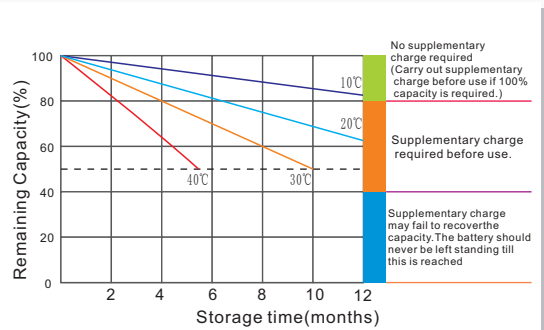
Temperature effects on Capacity



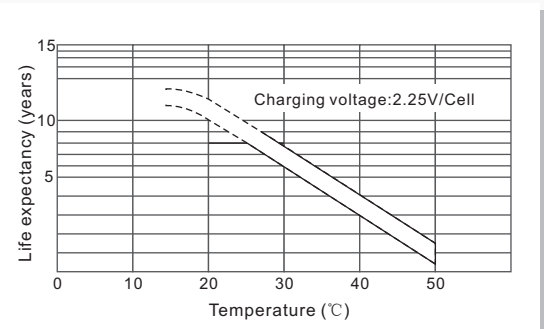
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

