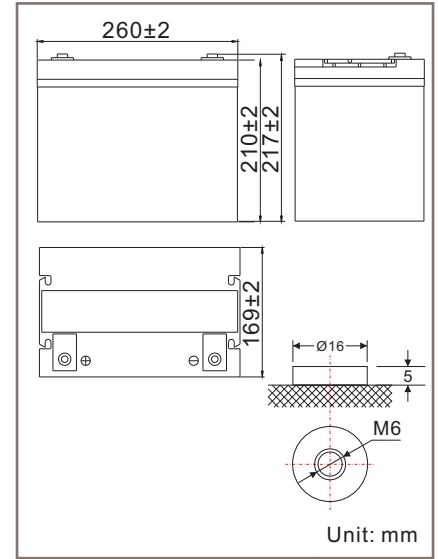


SLA BATTERY—ELECTRIC VEHICLE SERIES

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	75Ah@ 10hr-rate (7.5 A to 1.80V/cell @25°C)
Dimensions	Length 260±2mm (10.2 inches)
	Width 169±2mm (6.65 inches)
	Height 210±2mm (8.27 inches)
	Total Height 217±2mm (8.54 inches)
Weight	Approx.23.5Kg
Terminal	M6,Ø=16
Rated Capacity	80.8Ah 20hr-rate (4.04A to 1.80V/cell @20°C)
	75.5Ah 10hr-rate (7.55A to 1.80V/cell @20°C)
	64.5Ah 5hr-rate (12.9A to 1.75V/cell @25°C)
	48.6Ah 1hr-rate (48.6A to 1.60V/cell @25°C)
CCA	400A
25A discharge characteristic	>154min to 1.75V/cell @25°C
75A discharge characteristic	>38min to 1.75V/cell @25°C
Max. Discharge Current	560A(5sec)
Internal Resistance	Approx. 6.0mΩ(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:≤22.5A
	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)
- ◆

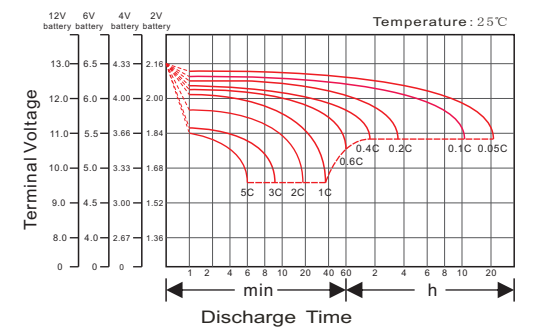
Constant Current Discharge Characteristics: A (20°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	261.2	192.3	139.9	86.0	48.6	27.1	19.5	16.1	13.2	9.3	7.85	4.28
1.65V/cell	253.6	183.0	137.0	84.5	48.4	26.9	19.4	16.1	13.1	9.2	7.77	4.24
1.70V/cell	246.1	176.5	134.9	83.8	47.9	26.7	19.3	16.0	13.1	9.1	7.70	4.20
1.75V/cell	221.0	162.9	128.4	81.7	47.5	26.5	19.2	15.8	12.9	9.1	7.62	4.16
1.80V/cell	199.5	148.5	118.4	78.1	46.3	26.0	18.7	15.5	12.7	8.9	7.55	4.04
1.85V/cell	173.6	132.7	106.2	73.2	44.0	24.9	17.9	14.7	12.1	8.5	7.32	3.80

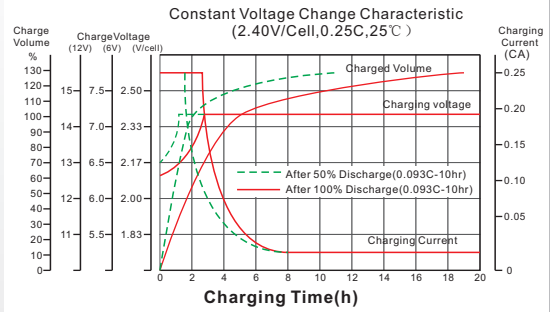
Constant Current Discharge Characteristics: W (20°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	2739	2045	1506	921	556	312	225	187	153.0	107.7	88.3	48.0
1.65V/cell	2666	1953	1474	910	553	311	225	186	152.0	107.3	87.4	47.6
1.70V/cell	2586	1888	1454	899	549	308	223	185	151.6	106.4	86.9	47.1
1.75V/cell	2328	1745	1387	879	544	305	222	184	150.2	105.5	86.0	46.6
1.80V/cell	2094	1584	1274	839	530	301	217	179	147.8	103.2	85.1	46.2
1.85V/cell	1808	1407	1138	786	502	287	206	170	140.4	99.6	82.4	44.3

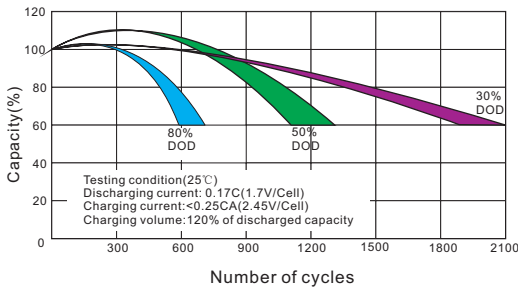
Discharge Characteristics Curve



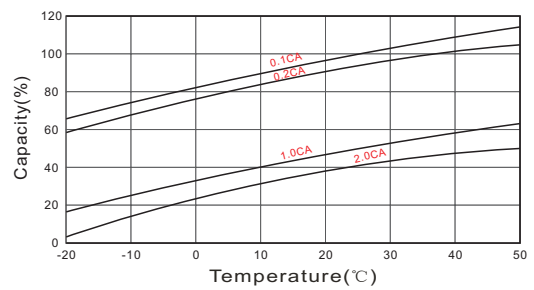
Charging Characteristics Curve



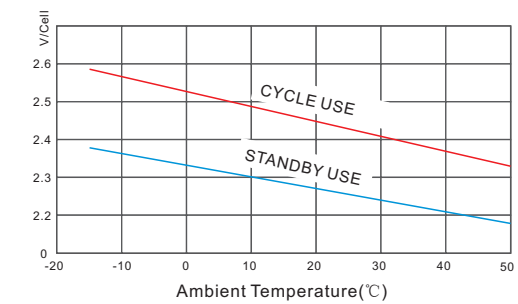
Cycle life in relation to depth of Discharge



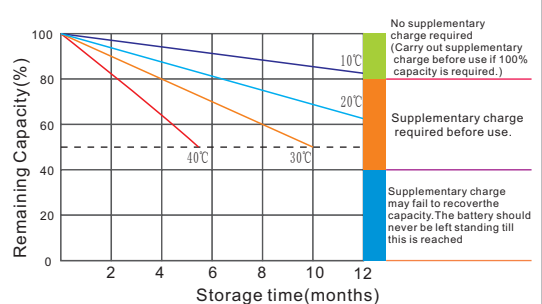
Temperature effects on Capacity



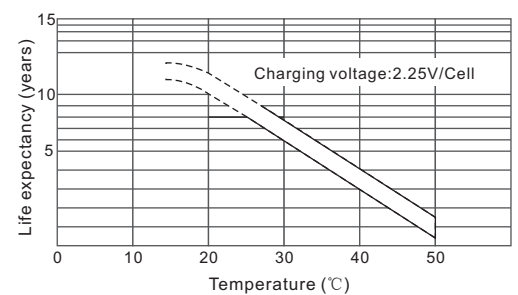
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

