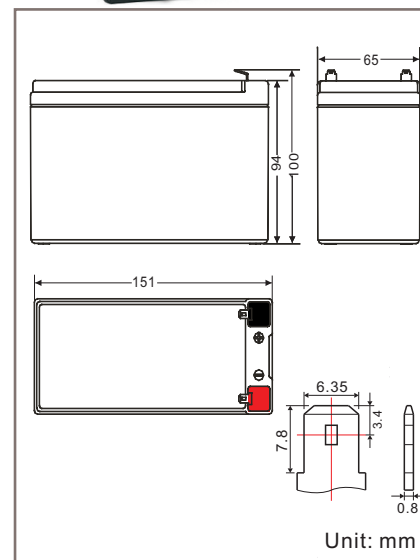


SLA BATTERY—ELECTRIC VEHICLE SERIES

Specification

Nominal Voltage	12V	
Number of cell	6	
Nominal Capacity	7.2Ah@ 20hr-rate (0.36 A to 1.80V/cell @25℃)	
Dimensions	Length	151±2mm (5.94 inches)
	Width	65±2mm (2.56 inches)
	Height	94±2mm (3.70 inches)
	Total Height	100±2mm (3.94 inches)
Weight	Approx. 2.25Kg	
Terminal	F2	
Rated Capacity	7.20Ah	20hr-rate (0.36A to 1.80V/cell @20℃)
	7.00Ah	10hr-rate (0.70A to 1.80V/cell @25℃)
	6.30Ah	5hr-rate (1.26A to 1.75V/cell @25℃)
	5.13Ah	1hr-rate (5.13A to 1.60V/cell @25℃)
Minutes of discharge	>40min	7A discharge to 1.75V/cell @25℃)
1.4A discharge characteristic	>260min to 1.75V/cell @25℃	
	>115min to 1.75V/cell @-10℃	
Max. Discharge Current	105A(5sec)	
Internal Resistance	Approx. 25mΩ(Fully charged)	
Operating Temp. Range	Discharge: -20℃~60℃	
	Charge : -15℃~60℃	
	Storage : -20℃~60℃	
Normal Operating Tem. Range	25±5℃	
Cycle Use	Charging Current:≤2.16A	
	Voltage:14.6V~14.8V	
	Temperature compensation:-30mV/℃	
Standby Use	Charging Current:No limit	
	Voltage:13.6V~13.8V	
	Temperature compensation:-20mV/℃	
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)
- ♦

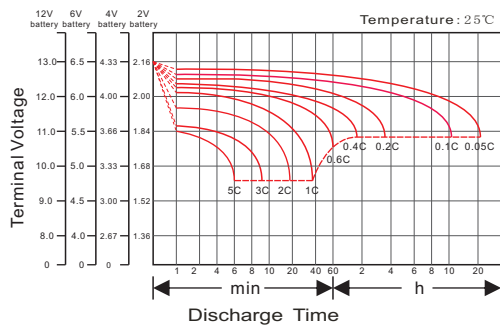
Constant Current Discharge Characteristics: A (20℃)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	29.20	19.51	15.01	8.671	5.130	2.674	1.892	1.552	1.287	0.853	0.739	0.415
1.65V/cell	28.14	18.76	14.52	8.538	5.100	2.655	1.885	1.545	1.279	0.850	0.731	0.400
1.70V/cell	26.62	18.18	14.19	8.471	5.064	2.648	1.878	1.538	1.271	0.847	0.724	0.392
1.75V/cell	24.05	17.01	13.45	8.279	4.990	2.616	1.870	1.530	1.264	0.843	0.716	0.377
1.80V/cell	21.48	15.85	12.71	8.079	4.916	2.571	1.855	1.523	1.256	0.840	0.701	0.362
1.85V/cell	18.93	14.68	11.97	7.880	4.849	2.533	1.841	1.515	1.249	0.836	0.694	0.354

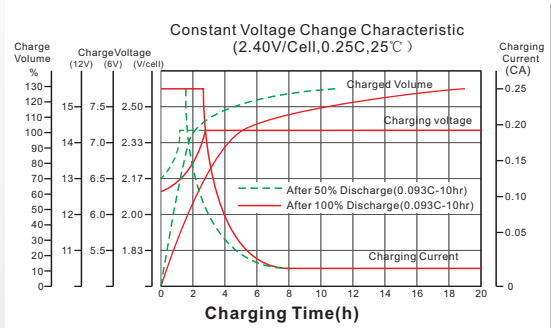
Constant Current Discharge Characteristics: W (20℃)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	319.3	207.6	168.7	104.0	61.52	32.05	22.66	18.54	18.14	10.26	8.735	4.883
1.65V/cell	311.0	207.3	166.2	102.4	61.34	31.86	22.62	18.49	18.00	10.18	8.646	4.704
1.70V/cell	304.8	201.1	162.4	101.7	61.21	31.78	22.58	18.49	17.95	10.17	8.556	4.614
1.75V/cell	275.4	192.8	154.0	99.26	60.19	31.28	22.44	18.36	17.91	10.14	8.466	4.435
1.80V/cell	246.0	180.4	145.5	96.91	59.17	30.85	22.26	18.23	17.86	10.10	8.332	4.300
1.85V/cell	216.7	167.9	137.0	94.56	58.15	30.39	22.09	18.10	17.82	10.10	8.198	4.166

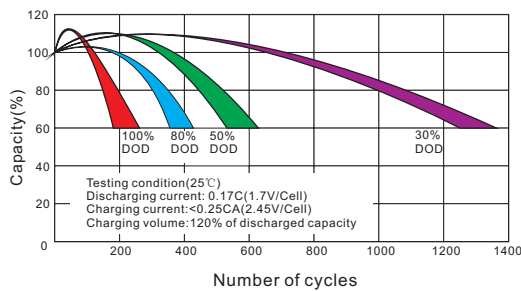
Discharge Characteristics Curve



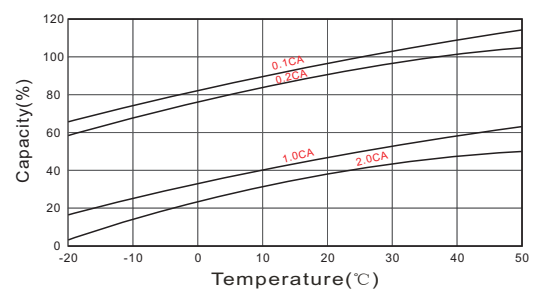
Charging Characteristics Curve



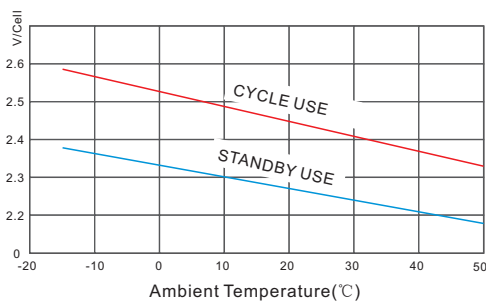
Cycle life in relation to depth of Discharge



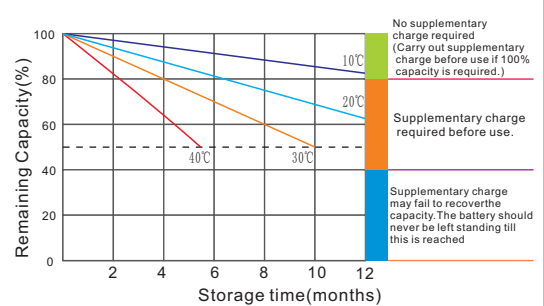
Temperature effects on Capacity



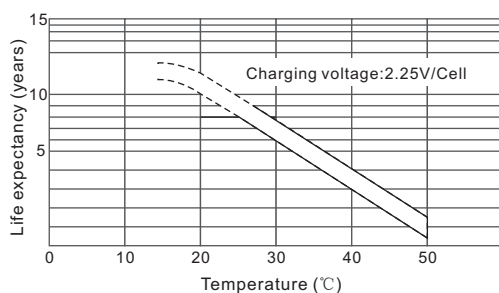
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

