

SLA BATTERY—STANDARD SERIES

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	26Ah@20hr-rate (1.4A to 1.80V/cell @25°C)
Weight	Approx.8.1Kg
Terminal	F3&F11
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	26.0Ah 20hr-rate (1.30A to 1.80V/cell @25°C)
	25.5Ah 10hr-rate (2.55A to 1.80V/cell @25°C)
	21.0Ah 5hr-rate (4.20A to 1.75V/cell @25°C)
	16.0Ah 1hr-rate (16.0A to 1.60V/cell @25°C)
Max. Discharge Current	390A(5sec)
Internal Resistance	Approx. 12mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C
	Charge : -10°C~50°C
	Storage : -20°C~40°C
Cycle Use	Charging Current: ≤7.8A
	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	6 years (floating charge)



Introduction

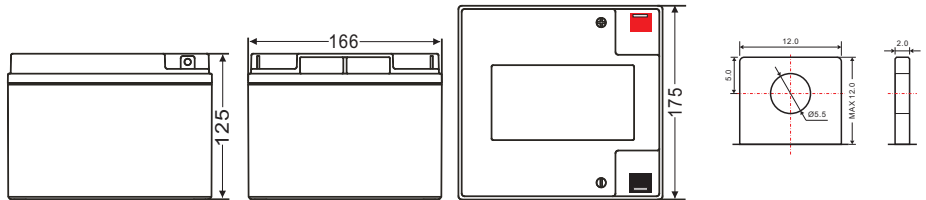
The MOTOMA standard series batteries designed with 6 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The standard series batteries have long and reliable standby life and high consistency for better performance in series usage.

Applications

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆

Dimensions

Length	166±1mm (6.53 inches)
Width	175±1mm (6.89 inches)
Height	125±1mm (4.92 inches)
Total Height	125±1mm (4.92 inches)



Unit: mm

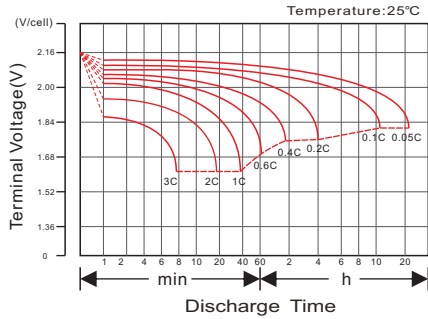
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	91.48	65.55	47.70	29.30	16.56	10.16	6.650	5.504	4.332	3.165	2.676	1.415
1.65V/cell	89.03	62.38	46.72	28.82	16.48	10.09	6.625	5.478	4.306	3.139	2.651	1.390
1.70V/cell	83.90	60.17	45.98	28.57	16.34	10.02	6.574	5.453	4.281	3.113	2.624	1.364
1.75V/cell	75.34	55.53	43.79	27.85	16.18	9.937	6.548	5.402	4.230	3.088	2.599	1.338
1.80V/cell	68.00	50.64	40.36	26.63	15.80	9.759	6.370	5.274	4.153	3.036	2.573	1.312
1.85V/cell	59.19	45.26	36.20	24.94	15.00	9.326	6.090	5.020	3.975	2.908	2.496	1.235

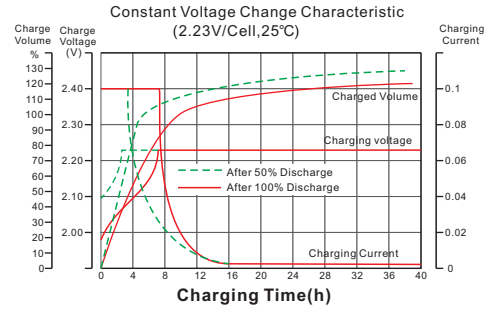
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	871.3	637.1	469.1	330.7	189.4	116.9	76.74	63.60	50.15	36.73	30.10	15.90
1.65V/cell	853.5	608.6	459.3	326.5	188.5	116.5	76.60	63.45	49.84	36.57	29.78	15.74
1.70V/cell	805.7	588.3	453.2	322.7	187.1	115.4	76.14	63.14	49.69	36.26	29.63	15.58
1.75V/cell	725.5	543.6	432.1	315.4	185.3	114.4	75.68	62.68	49.23	35.96	29.32	15.44
1.80V/cell	652.6	493.5	397.0	301.1	180.7	112.7	73.84	61.00	48.46	35.18	29.01	15.28
1.85V/cell	563.3	438.4	354.5	282.0	171.2	107.5	70.17	58.09	46.02	33.95	28.09	14.66

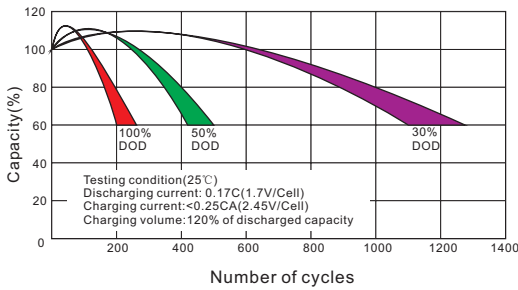
Discharge Characteristics Curve



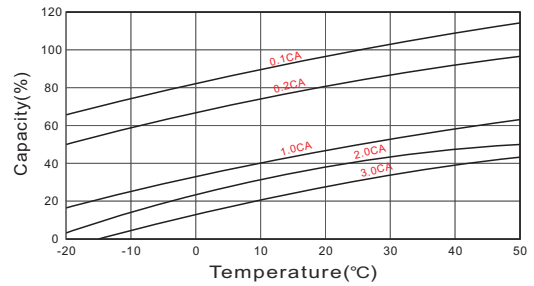
Charging Characteristics Curve



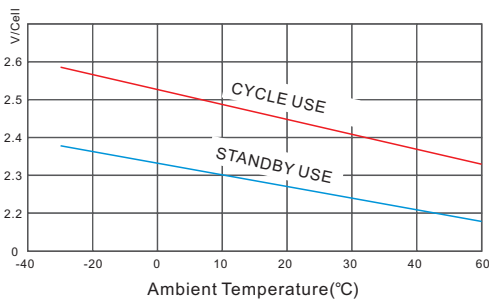
Cycle life in relation to depth of Discharge



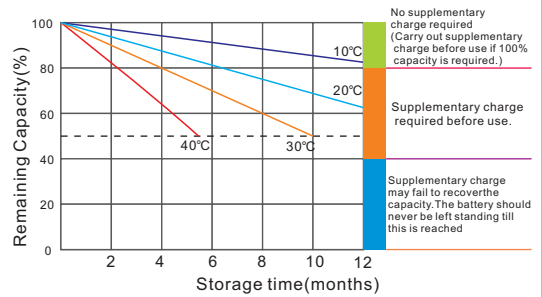
Temperature effects on Capacity



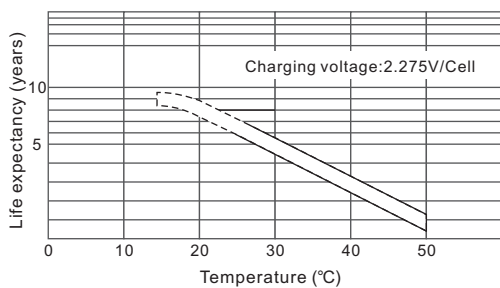
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

