

Sealed Lead-Acid Battery High Rate

198-4039(12V18.6Ah)

Specification

Rated Voltage	12V
Normal Capacity	18.6Ah(C ₁₀ , 1.80V/cell)
Approx Weight	2.50 kg
Max. Discharge Current	300A (5 s)
Internal Resistance	Approx 15 mΩ
Operating Temp. Range	Discharge : -20~55°C (4~131°F) Charge : 0~40°C (32~104°F) Storage : -15~50°C (5~122°F)
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
Float charging Voltage	13.5V DC/unit Average at 25°C. Coefficient -20mV/°C
Recommended Maximum Charging Current Limit	6.0 A
Equalization and Cycle Service	14.1 to 14.4V DC/unit Average at 25°C. Coefficient -30mV/°C
Terminal	T12
Container Material	ABS
Self Discharge	The batteries can be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Dimensions

Unit: mm Dimension: 181.5(L) × 77(W) × 167.5(H)

T12 Terminal
Unit: mm [inches]

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	52.6	37.4	32.4	26.3	18.5	13.7	10.9	7.9	6.33	4.74	3.75	3.12	2.13	1.74
1.80V/cell	61.4	44.1	37.7	30.3	21.0	15.4	12.1	8.65	6.88	5.12	4.04	3.36	2.28	1.86
1.75V/cell	66.9	47.3	39.9	31.8	21.9	16.0	12.6	8.94	7.09	5.26	4.14	3.44	2.32	1.89
1.70V/cell	72.5	50.5	42.2	33.5	22.9	16.6	13	9.24	7.32	5.41	4.24	3.52	2.36	1.92
1.67V/cell	75.8	52.5	43.5	34.4	23.4	17.0	13.3	9.41	7.44	5.50	4.30	3.56	2.39	1.94
1.60V/cell	83.6	56.9	46.6	36.5	24.7	17.8	13.9	9.83	7.75	5.70	4.45	3.67	2.44	1.98

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	114.0	78.7	64.4	50.7	35.8	26.6	21.3	15.4	12.4	9.28	7.36	6.15	4.21	3.45
1.80V/cell	128.8	90.6	73.9	57.9	40.2	29.6	23.4	16.8	13.4	10.0	7.91	6.60	4.50	3.68
1.75V/cell	138.9	95.6	77.2	60.1	41.6	30.5	24.1	17.2	13.7	10.2	8.08	6.73	4.57	3.73
1.70V/cell	147.6	100.4	81.7	62.7	43.1	31.4	24.8	17.7	14.1	10.5	8.25	6.86	4.64	3.78
1.67V/cell	153.0	103.2	85.0	64.0	43.9	32.0	25.2	17.9	14.3	10.6	8.35	6.93	4.68	3.81
1.60V/cell	155.2	109.9	87.7	67.2	45.8	33.3	26.2	18.6	14.8	10.9	8.58	7.12	4.78	3.88

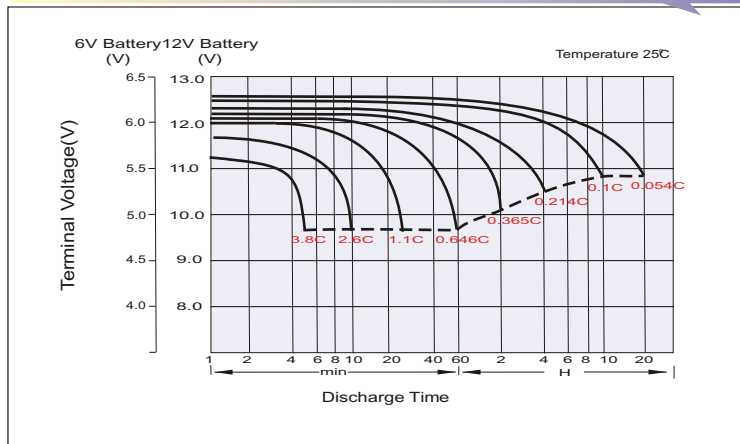
Applications

- ◆ UPS
- ◆ Hospitals & Testing Laboratories
- ◆ Emergency Power Supply
- ◆ Industrial Process Control Facilities
- ◆ Banks & Financial Markets
- ◆ Data & Network Operation Centers

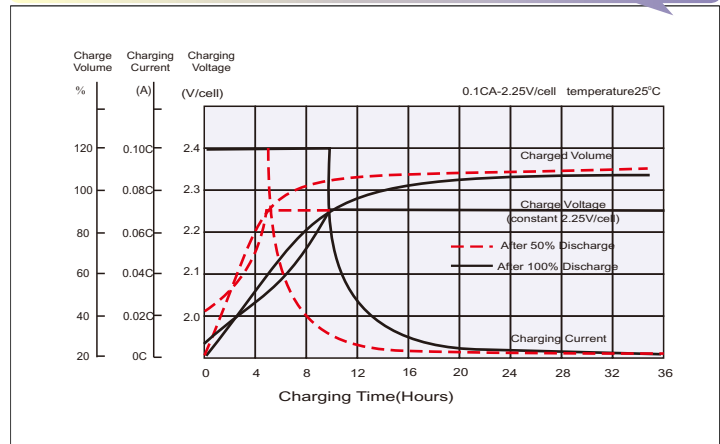
General Features

- ◆ ABS material: UL94 HB
- ◆ Oxygen recombination efficiency: $\geq 98\%$
- ◆ High quality AGM separator: extend cycle life and prevent micro short circuit
- ◆ Unique vent valve design: reduce water losing and prevent air/spark going inside
- ◆ PbCaSn alloy for plate grids: less gassing, less self-discharging

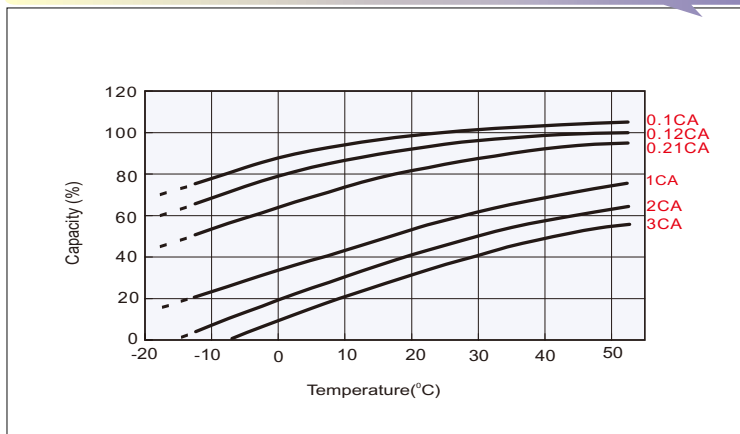
Discharge Characteristics



Float Charging Characteristics



Temperature Effects In Relation To Battery Capacity



Temperature Effects on Long Term Float Life

