



RS PRO Sealed Lead-Acid Battery High Rate

198-4036(12V6.5Ah)

Specification

Rated Voltage	12V
Normal Capacity	6.5 Ah (C ₁₀ , 1.80V/cell)
Approx Weight	2.08 kg
Max. Discharge Current	90A (5 s)
Internal Resistance	Approx 28 mΩ
Operating Temp. Range	Discharge : -20~55°C (4~131°F) Charge : 0~40°C (32~104°F) Storage : -15~40°C (5~104°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	1.8A
Equalization and Cycle Service	14.1 to 14.4VDC/unit Average at 25°C. Coefficient -30mV/°C
Terminal	T1
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: 151(L)×65(W)×99(H)

Unit: mm [inches]

T1 Terminal

3.2 [0.126]
6.35 [0.25]
0.8 [0.031] 4.75 [0.187]

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	17.2	11.6	9.92	7.95	5.90	4.37	3.70	2.77	2.21	1.66	1.31	1.09	0.745	0.610
1.80V/cell	20.0	13.7	11.5	9.16	6.67	4.89	4.09	3.03	2.41	1.79	1.41	1.18	0.798	0.651
1.75V/cell	21.8	14.7	12.2	9.61	6.97	5.09	4.25	3.13	2.48	1.84	1.45	1.20	0.812	0.661
1.70V/cell	23.6	15.7	12.9	10.1	7.28	5.28	4.40	3.23	2.56	1.89	1.49	1.23	0.827	0.671
1.67V/cell	24.7	16.3	13.3	10.4	7.46	5.40	4.49	3.29	2.60	1.92	1.51	1.25	0.836	0.677
1.60V/cell	27.3	17.6	14.2	11.0	7.87	5.67	4.71	3.44	2.71	1.99	1.56	1.28	0.855	0.692

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	37.1	24.6	20.5	15.3	11.4	8.48	7.19	5.39	4.33	3.25	2.58	2.15	1.47	1.21
1.80V/cell	41.6	28.3	23.4	17.5	12.8	9.41	7.91	5.87	4.68	3.50	2.77	2.31	1.57	1.29
1.75V/cell	44.7	29.9	24.4	18.2	13.2	9.72	8.14	6.03	4.80	3.58	2.83	2.36	1.60	1.30
1.70V/cell	47.3	31.4	25.5	18.9	13.7	10.0	8.38	6.19	4.93	3.67	2.89	2.40	1.62	1.32
1.67V/cell	49.0	32.3	26.0	19.3	14.0	10.2	8.51	6.28	4.99	3.71	2.92	2.43	1.64	1.33
1.60V/cell	49.7	34.4	27.4	20.3	14.6	10.6	8.85	6.51	5.16	3.83	3.00	2.49	1.67	1.36

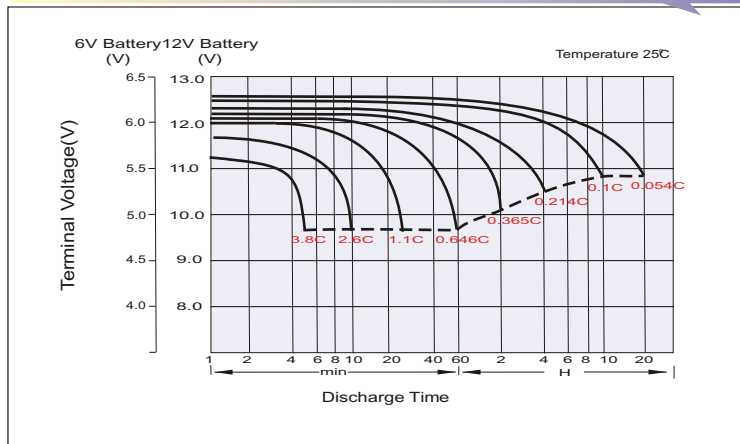
Applications

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

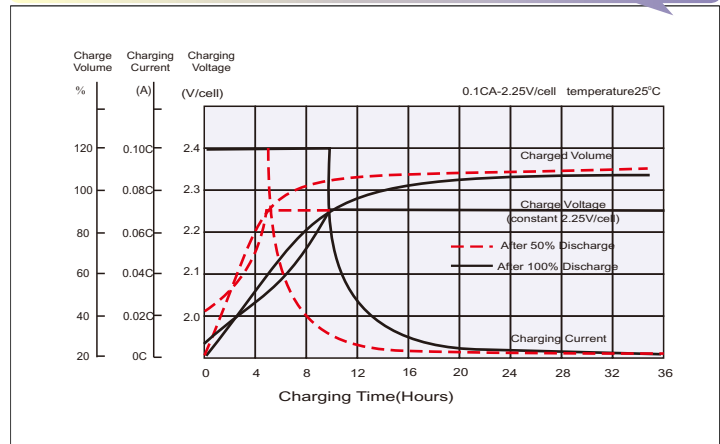
General Features

- ◆ 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

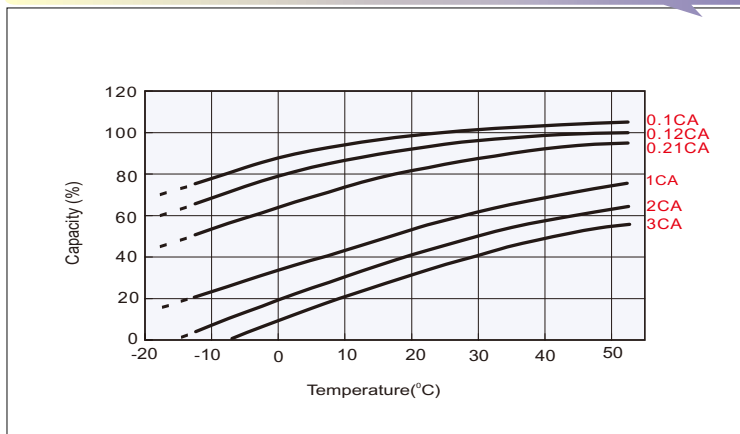
Discharge Characteristics



Float Charging Characteristics



Temperature Effects In Relation To Battery Capacity



Temperature Effects on Long Term Float Life

