



Sealed Lead-Acid Battery High Rate

198-4040(12V38Ah)

Specification

Rated Voltage	12V								
NormalCapacity	38 Ah (C ₁₀ ,1.80V/cell)								
Approx Weight	11.6 kg								
Max. Discharge Current	500A(5 s)								
Internal Resistance	Approx 10.0 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	9.5A								
Equalization and Cycle Service	14.1 to14.4 V DC/unit Average at 25° C. Coefficient -30mV/ $^{\circ}$ C								
Terminal	Т6								
Container Material	ABS								
Self Discharge	The batteries can be stored for up to 6 months at $25^{\circ}C(77^{\circ}F)$ and then a freshening charge is required.								



Dimensions



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	71.8	57.3	49.7	39.1	27.6	26.8	21.0	15.6	12.6	9.35	7.40	6.26	4.32	3.70
1.80V/cell	81.6	65.1	56.3	44.2	31.1	28.4	22.4	16.6	13.3	9.79	7.67	6.50	4.41	3.80
1.75V/cell	88.7	70.6	61.0	47.7	33.4	29.6	23.3	17.2	13.8	10.1	7.92	6.69	4.46	3.82
1.70V/cell	94.8	75.2	64.7	50.6	35.4	30.5	23.9	17.7	14.1	10.3	8.12	6.84	4.53	3.84
1.67V/cell	98.1	77.6	66.6	52.0	36.3	31.3	24.5	18.1	14.5	10.6	8.22	6.93	4.58	3.90
1.60V/cell	101.6	80.3	68.7	53.3	37.2	31.9	24.9	18.5	14.8	10.8	8.41	7.07	4.60	3.92

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	134.1	107.8	94.1	74.3	52.7	51.6	40.7	30.3	24.4	18.3	14.5	12.3	8.58	7.35
1.80V/cell	150.0	120.6	105.2	83.1	58.9	54.3	43.0	32.0	25.7	19.0	15.0	12.8	8.73	7.55
1.75V/cell	160.1	128.7	112.3	88.7	62.9	56.1	44.6	33.1	26.6	19.6	15.4	13.1	8.80	7.57
1.70V/cell	168.3	135.3	118.1	93.3	66.1	57.5	45.5	33.8	27.1	20.0	15.7	13.3	8.92	7.61
1.67V/cell	171.0	137.5	120.0	94.8	67.2	58.7	46.4	34.4	27.7	20.3	15.9	13.5	9.00	7.72
1.60V/cell	173.4	139.4	121.7	96.1	68.1	59.2	46.9	34.8	28.0	20.7	16.2	13.7	9.03	7.75

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been tes?fied by engineers as giving comparable quality to that of the leading brands without paying a premium price .





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: ≥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



Temperature Effects In Relation To Battery Capacity 120 100 80 C۵ Capacity (%) 60 40 20 0 ∟ -20 50 -10 0 10 20 30 40 Temperature(°C)

Float Charging Characteristics Charge Volume Charging Current Charging Voltage (A) 0 10 4-2 251/4 (V/cell 0.10 0.08 0.060 80 0.04 60 40 0.02 20 0C 12 24 32 8 16 20 28 Charging Time(Hours)



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