

DC200-12 12V 200Ah

Sealed Lead Acid AGM Battery

Features

DC Extreme Cycling Series:

- Designed for long life in high cycling applications where battery is required to discharge or power and operate the application on a routine basis.
- Proprietary precious metal additives are blended into the grid materials and refined (4BS) active material to optimize the structure increasing cycle-life, and reducing internal resistance. This makes the batteries cycle longer and charge better and faster, while extending overall life.
- 7-10 year service life in standby applications at 25° C temperatures.
- Cycles over 500 times at 60% depth of discharge yet will perform equally well in standby and other applications where both conditions are required.
- Valve Regulated Lead Acid (VRLA), Absorbent Glass Mat (AGM) Technology Safe operation in any position
- Lead-calcium alloy grids and the use of high purity virgin lead
- Externally sealed Flame retardant ABS case and cover to UL94-HB specifications
- UL recognized (UR) as a component in UL approved equipment installations under File number MH46202
- Classified as non-spillable status for transportation making it non-hazardous for normal transportation processes. Approved for transport by air. Fulfills US D.O.T., I.A.T.A., F.A.A., C.A.B. handling and shipping requirements
- For more on special design and construction details see Features and Benefits publication on www. oraclebattery.com





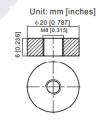
Specification

| Cell per unit | 6 | Ambient Temperature | | | |
|----------------------------|---|--|--|--|--|
| Nominal Voltage (V) | 12 | Charge 0°C (32°F) to 40°C (104°F) | | | |
| Nominal Capacity (Ah) | 200Ah @ 20 ho <mark>ur rat</mark> e to 1.75vpc | Discharge -15°C (5°F) to 50°C (122°F) | | | |
| Weight | Approx 58kg (<mark>127.8</mark> 7lbs.) | Storage -15 <mark>°C (5</mark> °F) to 40°C (104°F) | | | |
| Internal Resistance (1KHz) | rnal Resistance (1KHz) 4mΩ Max Charge Current | | | | |
| Max Discharge Current (5s) | 1000A (5s) | Max charge c <mark>urren</mark> t 60A | | | |
| Battery Life | Stand by: 7~1 <mark>0 yea</mark> rs | Cycle use: Charge voltage: 14.4 to 15.0V | | | |
| Terminal Type | IT(M8) | Stand by: Charge voltage: 13.5 to 13.8V | | | |
| Container Material | ABS 94-HB flame retardant case (94V-0 Optional) | | | | |

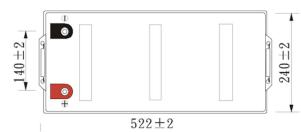


Dimensions

| | Length | Width | Height | Total Height | |
|-----------|------------|-----------|-----------|--------------|--|
| Unit mm | 535±1 | 206±1 | 216±1 | 240±1 | |
| Unit inch | 21.06±0.04 | 8.11±0.04 | 8.50±0.04 | 9.45±0.04 | |



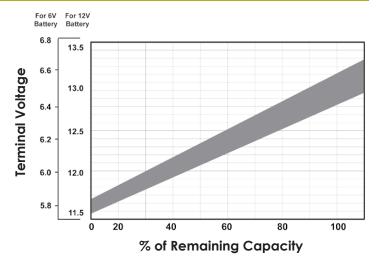




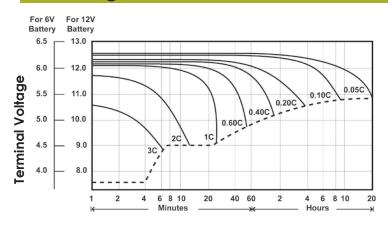


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Terminal Voltage



Discharge Times



Time to Ending Voltage

Charge Voltages

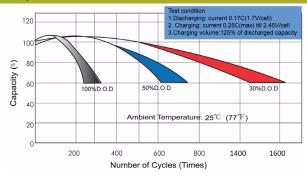
Temperature Compensated Charging

| Average Temperature | Cycle Charging Volts Per Cell | Float Charging Volts Per Cell | | |
|------------------------|----------------------------------|----------------------------------|--|--|
| -40°C (-40°F) | 2.85-2.95 | 2.38-2.43 | | |
| -20°C (-4°F) | 2.67-2.77 | 2.34-2.39 | | |
| -10°C (14°F) | 2.61-2.71 | 2.32-2.37 | | |
| 0°C (32°F) | 2.55-2.65 | 2.30-2.35 | | |
| 10°C (50°F) | 2.49-2.59 | 2.28-2.33 | | |
| 20°C (68°F) | 2.43-2.53 | 2.26-2.31 | | |
| 25°C (77°F) | 2.40-2.50 | 2.25-2.30 | | |
| 30°C (86°F) | 2.37-2.47 | 2.24-2.29 | | |
| 40°C (104°F) | 2.31-2.41 | 2.22-2.27 | | |
| 50°C (122°F) | 2.25-2.35 | 2.20-2.25 | | |

Temperature Storage

| Average Storage Temperature | Recharging Interval | | |
|--------------------------------|------------------------|--|--|
| 68°F | Every 9 months | | |
| 77°F | Every 6 months | | |
| 95°F | Every 3 months | | |

Cycle Life



Constant Current Discharge Characteristics (25°C 77°F)

| F.V/Time | 5MIN | 15MIN | 30MIN | 60MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.60V | 489.0 | 419.0 | 215.0 | 126.0 | 75.1 | 57.00 | 38.00 | 25.10 | 21.00 | 10.80 |
| 1.67V | 459.0 | 390.0 | 207.0 | 122.0 | 72.7 | 55.00 | 37.00 | 24.70 | 20.80 | 10.60 |
| 1.70V | 439.0 | 385.0 | 201.0 | 118.0 | 70.7 | 54.50 | 36.40 | 24.20 | 20.40 | 10.40 |
| 1.75V | 408.0 | 367.0 | 195.0 | 115.0 | 68.0 | 52.90 | 35.80 | 23.80 | 20.20 | 10.20 |
| 1.80V | 377.0 | 318.0 | 182.0 | 112.0 | 65.0 | 50.50 | 35.20 | 23.40 | 18.70 | 10.00 |

