



Batteries that last and last

# Deep Cycle AGM Batteries

## C12-55DA (12V55Ah)



Century AGM Deep Cycle Batteries are the ultimate in deep cycle battery performance, designed to provide longer life and dependable deep cycling capability in the harshest of operating conditions and environments.

The Century Deep Cycle AGM range utilises Absorbed Glass Mat (AGM) technology which absorbs the liquid electrolyte within highly porous glass fibre mat separators. This eliminates loose electrolyte whilst the sealed maintenance free design prevents acid leaks and the need for on-going maintenance. Extra strong grid designs, superior active paste material and robust internal components ensure lower self discharge, superior vibration resistance, longer cycle life and improved recharge capabilities.

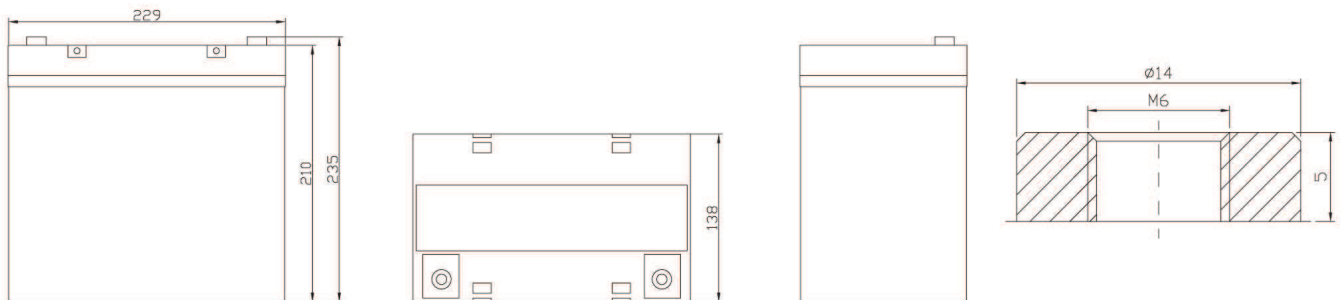
Century Deep Cycle AGM batteries are ideal for use in applications where fast recharge, and superior deep cycle capabilities are required, such as recreational vehicles and accessories, dual battery systems, golf carts, electric wheel chairs, mobility scooters and marine systems.

### Product Specification

|   |   |   |                                      |
|---|---|---|--------------------------------------|
| <b>Cells</b>                              | 6   | <b>Weight</b>                                       | Approx. 18.0 kg                      |
| <b>Voltage</b>                            | 12  | <b>Max. Discharge Current</b>                       | 550 A (5 sec)                        |
| <b>Capacity</b>                           | 55Ah@20hr-rate to 1.75V per cell @ 25°C   | <b>Internal Resistance</b>                          | Approx. 6mΩ                          |
| <b>Operating Temperature Range</b>        | Discharge: -20°C~60°C<br>Charge: 0°C~50°C<br>Storage: -20°C~60°C  | <b>Terminal</b>                                     | M6 Insert                            |
|   |   | <b>Container Material</b>                           | A. B. S. (UL94-HB).                  |
| <b>Normal Operating Temperature Range</b> | 25°C ± 5°C  | <b>Recommended Max. Charging - Current Limit</b>    | 16.5 A                               |
| <b>Float charging Voltage</b>             | 13.6 to 13.8 VDC/unit Average at 25°C   | <b>Equalisation and Cycle Service</b>               | 14.6 to 14.8VDC/unit Average at 25°C |
| <b>Self Discharge</b>                     | Century AGM batteries can be stored for more than 6 months at 25°C. Self-discharge rate less than 3% per month at 25°C. Please charge batteries before using. | <b>Note: Warranty void if mounted under bonnet.</b> |                                      |

### Dimensions

Unit: mm



### Discharge Current VS Discharge Voltage

|                                |            |                   |            |
|--------------------------------|------------|-------------------|------------|
| Final Discharge Voltage V/cell | 1.75V      | 1.70V             | 1.60V      |
| Discharge Current (A)          | (A) ≤ 0.2C | 0.2C < (A) < 1.0C | (A) ≥ 1.0C |

**Charge the batteries at least once every six months, if they are stored at 25°C**

### Charging Method:

|                  |   |
|------------------|---|
| Constant Voltage | -0.2Cx2h+2.4~2.45V/Cellx24h, Max. Current 0.3CA |
|------------------|---|

ALL MENTIONED VALUES ARE AVERAGE VALUES.

**Constant Current Discharge Characteristics: A (25°C)**

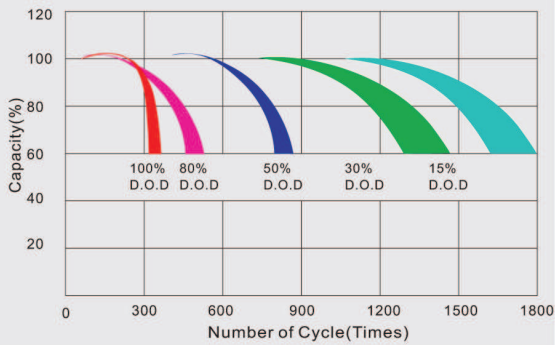
| F.V/Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 2HR   | 3HR   | 4HR   | 5HR   | 8HR   | 10HR  | 20HR  |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.60V    | 189.6 | 135.8 | 98.84 | 60.72 | 34.32 | 19.46 | 13.78 | 11.40 | 8.976 | 6.559 | 5.546 | 2.933 |
| 10.0V    | 184.5 | 129.3 | 96.81 | 59.72 | 34.16 | 19.31 | 13.73 | 11.35 | 8.923 | 6.505 | 5.492 | 2.879 |
| 10.2V    | 173.9 | 124.7 | 95.29 | 59.19 | 33.84 | 19.16 | 13.62 | 11.30 | 8.870 | 6.452 | 5.439 | 2.826 |
| 10.5V    | 156.1 | 115.1 | 90.73 | 57.71 | 33.53 | 19.01 | 13.57 | 11.19 | 8.765 | 6.399 | 5.386 | 2.773 |
| 10.8V    | 140.9 | 104.9 | 83.64 | 55.18 | 32.74 | 18.66 | 13.20 | 10.93 | 8.606 | 6.292 | 5.332 | 2.719 |
| 11.1V    | 122.7 | 93.8  | 75.02 | 51.69 | 31.10 | 18.36 | 12.62 | 10.40 | 8.237 | 6.025 | 5.172 | 2.559 |

**Constant Power Discharge Characteristics: W (25°C)**

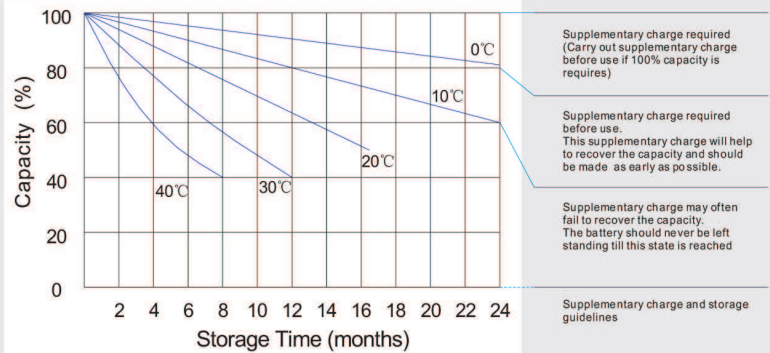
| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 2HR   | 3HR   | 4HR   | 5HR   | 8HR   | 10HR  | 20HR  |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.60V    | 1975 | 1445  | 1064  | 685.2 | 392.5 | 230.2 | 159.0 | 131.8 | 103.9 | 76.11 | 62.36 | 32.94 |
| 10.0V    | 1935 | 1380  | 1041  | 676.7 | 390.6 | 229.3 | 158.7 | 131.5 | 103.3 | 75.79 | 61.72 | 32.62 |
| 10.2V    | 1827 | 1334  | 1027  | 668.8 | 387.8 | 227.2 | 157.8 | 130.8 | 103.0 | 75.15 | 61.40 | 32.30 |
| 10.5V    | 1645 | 1232  | 979.6 | 653.6 | 384.0 | 225.1 | 156.8 | 129.9 | 102.0 | 74.51 | 60.76 | 31.98 |
| 10.8V    | 1480 | 1119  | 900.1 | 623.8 | 374.5 | 221.8 | 153.0 | 126.4 | 100.4 | 72.91 | 60.12 | 31.66 |
| 11.1V    | 1277 | 993.8 | 803.7 | 584.5 | 354.8 | 211.6 | 145.4 | 120.4 | 95.36 | 70.35 | 58.20 | 30.38 |

All mentioned values are average values.

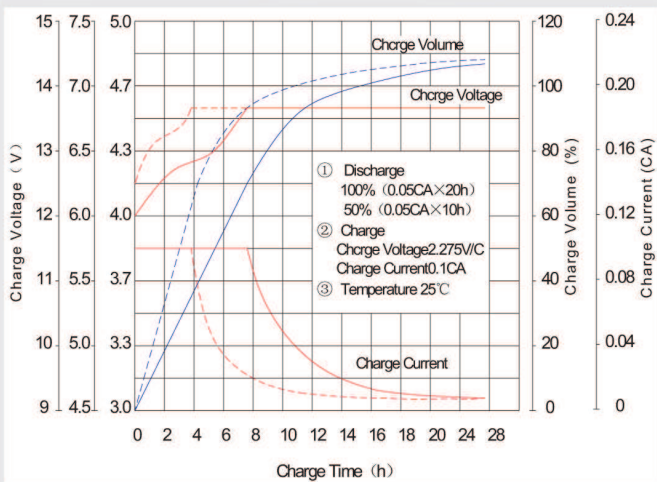
**Life characteristics of cyclic use**



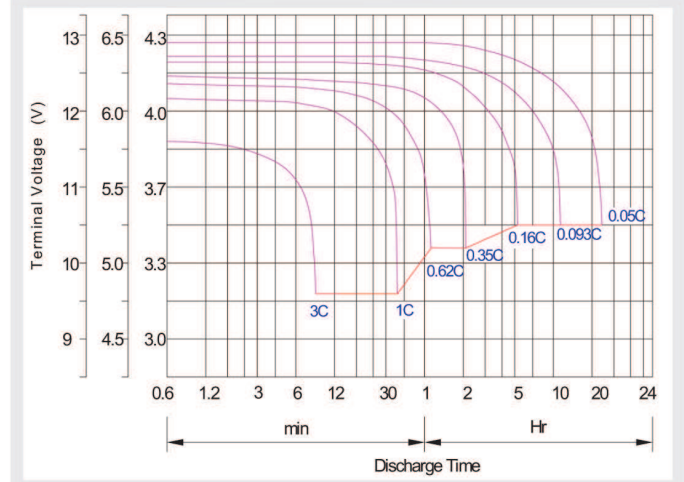
**Storage characteristic**



**Charge characteristic curve for cyclic use**



**Discharge characteristic Curve**



**Battery Disposal**

This battery is 98% recyclable. Help create a cleaner Australia, return your used battery to the original place of purchase or your nearest CenturyYuasa approved Battery Recycling Centre.  
Visit [recycle.mybattery.com.au](http://recycle.mybattery.com.au) or call 1300 650 702 to find the nearest centre to you.