



## DATASHEET

# DCEV 330-6

6V 330AH

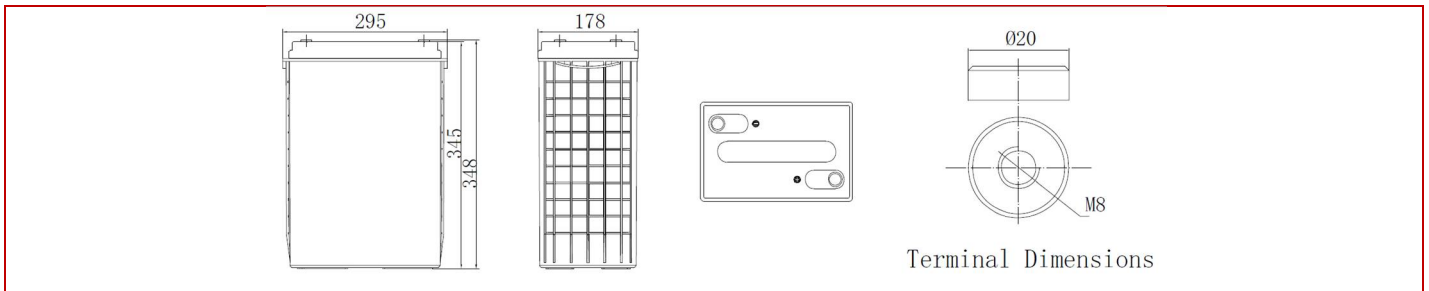
**GEL SEALED VRLA BATTERY**

**EUROBAT 2022 CLASSIFICATION: 12 Years – Long Life**

**Designed in accordance with IEC 60896-21/22**

## SPECIFICATIONS

| Nominal Voltage | Nominal Capacity | Dimension<br>±3mm |       |       |       | Weight | Max Discharge Current<br>(5s) | Internal Resistance | Standard Terminal | Container Material |
|-----------------|------------------|-------------------|-------|-------|-------|--------|-------------------------------|---------------------|-------------------|--------------------|
|                 |                  | L                 | W     | H     | TH    |        |                               |                     |                   |                    |
| 6V              | 330AH            | 295mm             | 178mm | 345mm | 348mm | 47kg   | 3.300A                        | ≈1.8 mΩ             | M8                | ABS<br>UL94-V0     |



## CONSTANT-VOLTAGE CHARGE

| Rated Capacity                   |         |
|----------------------------------|---------|
| 20 hour rate (16.5A)             | 330.0AH |
| 10 hour rate (32.2A)             | 322.0AH |
| 3 hour rate (86.9A)              | 260.7AH |
|                                  |         |
|                                  |         |
| Capacity affected by temperature |         |
| 40°C (104°F)                     | 103%    |
| 25°C (77°C)                      | 100%    |
| 0°C (32°F)                       | 86%     |

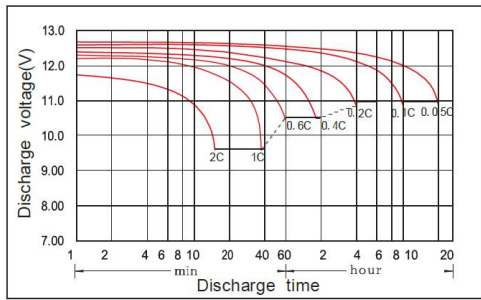
| Charge Method (25°C)  |
|---|
| Charge current: Max. 66A; Recom. 33A                                |
| Float Charge Voltage (-1.5mV/°C): 6.75-6.9V, recom. 7.05V (-2mV/°C) |
| Equalize charge: 6.9-7.05V, recom. 7.05V (-2mV/°C)                  |
| Cycle charge: 7.2-7.5V, recom. 7.2V (-3mV/°C)                       |
|   |
|   |
| Operating Temperature   |
| Discharge: -20÷50°C   |
| Charge: -20÷50°C  |
| Storage: -20÷50°C   |

| Nominal Operating Temp. Range |
|-------------------------------|
| 25±3°C (77±5°F)               |

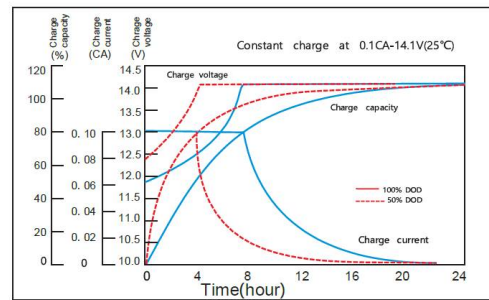
| Self Discharge                            |
|---|
| 3% of capacity declined per month at 25°C |

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

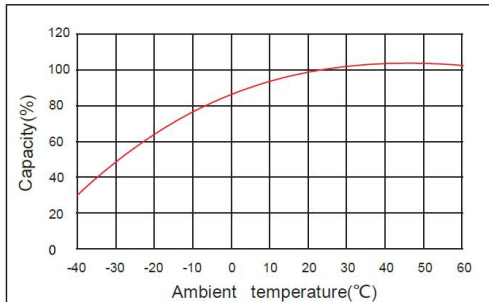
**DISCHARGE CHARACTERISTIC**



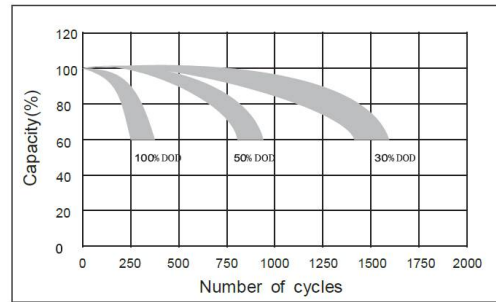
**CHARGING CHARACTERISTIC**



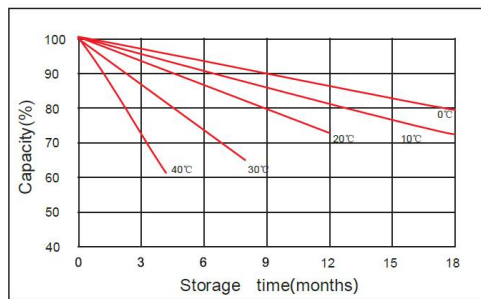
**THE EFFECT OF TEMPERATURE ON CAPACITY**



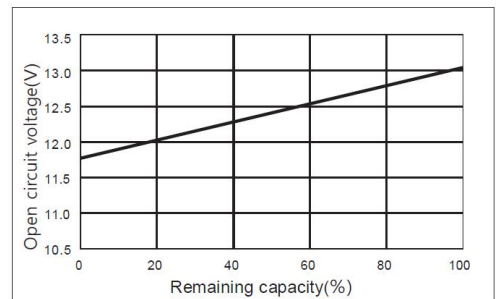
**THE EFFECT OF DISCHARGE DEPTH ON CYCLE LIFE**



**CURVES OF SELF-DISCHARGE**



**CURVES OF OPEN CIRCUIT VOLTAGE VS. CAPACITY**



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

| F.V/Time    | 5min | 10min | 15min | 30min | 45min | 1h  | 1.5h | 2h  | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|-------------|------|-------|-------|-------|-------|-----|------|-----|------|------|------|------|------|------|------|
| 1,60V /cell | 306  | 306   | 306   | 306   | 256   | 203 | 137  | 126 | 90.1 | 65.3 | 60.5 | 48.3 | 39.8 | 33.5 | 17.2 |
| 1,65V /cell | 301  | 301   | 301   | 301   | 253   | 202 | 135  | 124 | 89.3 | 64.6 | 60.0 | 47.9 | 39.4 | 33.2 | 17.0 |
| 1,70V /cell | 289  | 289   | 289   | 289   | 250   | 200 | 134  | 122 | 87.7 | 64.0 | 59.4 | 47.4 | 39.1 | 32.8 | 16.7 |
| 1,75V /cell | 266  | 266   | 266   | 266   | 248   | 198 | 133  | 121 | 86.9 | 63.5 | 58.8 | 47.0 | 38.8 | 32.6 | 16.5 |
| 1,80V /cell | 238  | 238   | 238   | 238   | 238   | 192 | 131  | 118 | 86.1 | 62.9 | 57.1 | 46.4 | 38.5 | 32.2 | 16.3 |
| 1,85V /cell | 212  | 212   | 212   | 212   | 219   | 179 | 127  | 113 | 81.3 | 61.0 | 54.2 | 45.1 | 36.9 | 31.3 | 15.9 |

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

| F.V/Time    | 5min | 10min | 15min | 30min | 45min | 1h  | 1.5h | 2h  | 3h  | 4h  | 5h   | 6h   | 8h   | 10h  | 20h  |
|-------------|------|-------|-------|-------|-------|-----|------|-----|-----|-----|------|------|------|------|------|
| 1,60V /cell | 520  | 520   | 520   | 520   | 474   | 352 | 265  | 224 | 157 | 126 | 107  | 92.2 | 70.4 | 62.9 | 35.0 |
| 1,65V /cell | 512  | 512   | 512   | 512   | 468   | 346 | 261  | 220 | 155 | 124 | 105  | 90.6 | 69.1 | 61.8 | 34.3 |
| 1,70V /cell | 491  | 491   | 491   | 491   | 462   | 339 | 256  | 216 | 152 | 121 | 103  | 88.8 | 67.9 | 60.6 | 33.6 |
| 1,75V /cell | 452  | 452   | 452   | 452   | 459   | 332 | 251  | 211 | 149 | 119 | 101  | 87.2 | 66.6 | 59.5 | 33.0 |
| 1,80V /cell | 404  | 404   | 404   | 404   | 441   | 320 | 241  | 204 | 143 | 114 | 97.4 | 83.9 | 64.0 | 57.2 | 31.7 |
| 1,85V /cell | 363  | 363   | 363   | 363   | 407   | 303 | 230  | 195 | 134 | 109 | 91.9 | 79.9 | 60.8 | 54.5 | 30.3 |



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