



DATASHEET

DCEV 225-6

6V 225AH

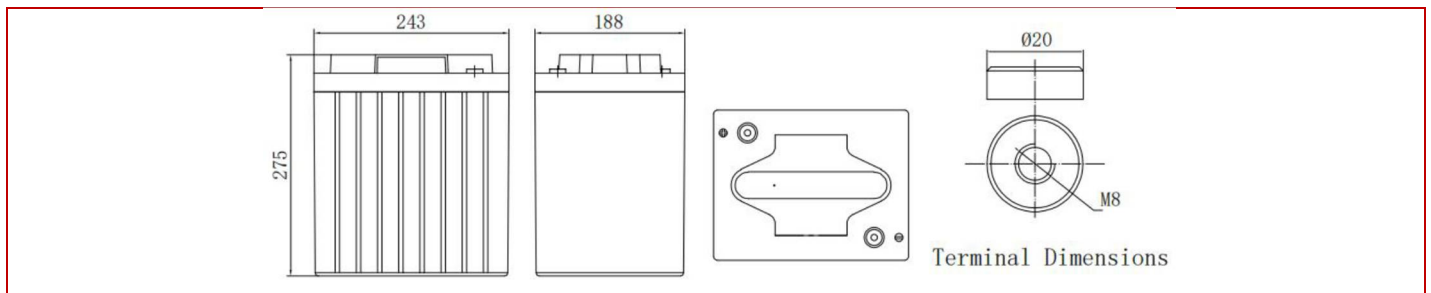
GEL SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 12 Years – Long Life

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

| Nominal Voltage | Nominal Capacity | Dimension ±3mm | | | | Weight | Short-Circuit Current | Internal Resistance | Standard Terminal | Container Material |
|-----------------|------------------|-------------------|-------|-------|-------|--------|-----------------------|---------------------|-------------------|--------------------|
| | | L | W | H | TH | | | | | |
| 6V | 225AH | 243mm | 188mm | 275mm | 275mm | 31,7kg | 2.608A | ≈2.3 mΩ | M8 | ABS UL94-V0 |



CONSTANT-VOLTAGE CHARGE

| Rated Capacity | |
|----------------------------------|---------|
| 20 hour rate (11.2A) | 225.0AH |
| 10 hour rate (59.8A) | 179.4AH |
| 1 hour rate (139A) | 139.0AH |
| | |
| | |
| Capacity affected by temperature | |
| 40°C (104°F) | 103% |
| 25°C (77°C) | 100% |
| 0°C (32°F) | 86% |

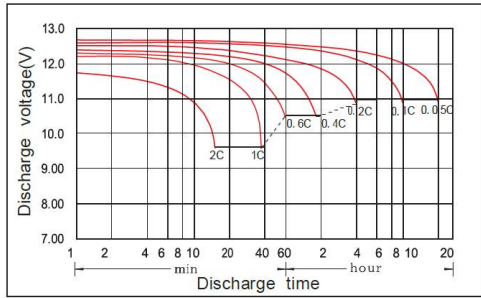
| Charge Method (25°C) |
|---|
| Charge current: Max. 56.3A; Recom. 22.5A |
| Float Charge Voltage: 6.75-6.9V, recom. 6.90V (-9mV/°C) |
| Equalize charge: 6.9-7.05V, recom. 7.05V (-12mV/°C) |
| Cycle charge: 7.2-7.5V, recom. 7.2V (-15mV/°C) |
| |
| Operating Temperature |
| Discharge: -20÷50°C |
| Charge: -20÷50°C |
| Storage: -20÷50°C |

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

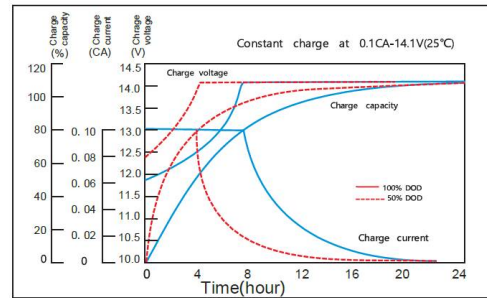
| Self Discharge |
|---|
| 3% of capacity declined per month at 25°C |

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

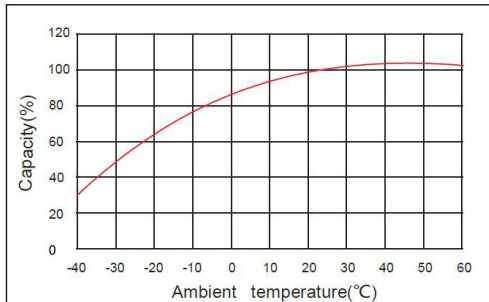
DISCHARGE CHARACTERISTIC



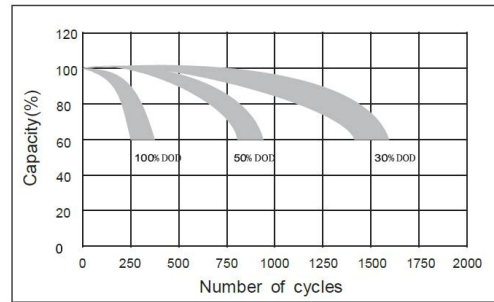
CHARGING CHARACTERISTIC



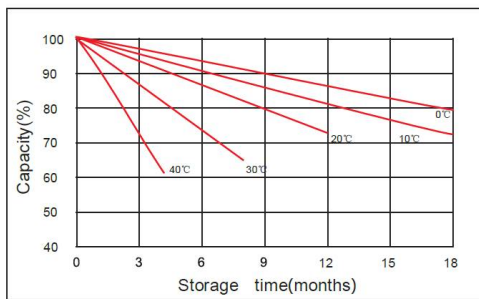
THE EFFECT OF TEMPERATURE ON CAPACITY



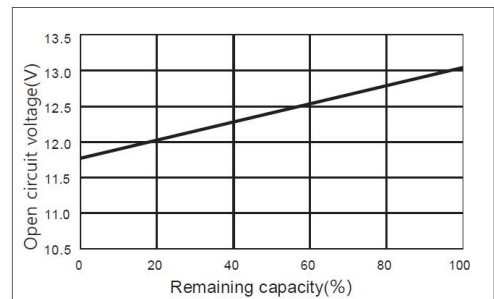
THE EFFECT OF DISCHARGE DEPTH ON CYCLE LIFE



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 | 225 | 175 | 139 | 93.3 | 85.6 | 61.5 | 44.5 | 41.3 | 32.9 | 27.1 | 22.8 | 11.74 |
| 1,65V / cell | 301 | 301 | 301 | 221 | 172 | 138 | 92.2 | 84.5 | 60.9 | 44.1 | 40.9 | 32.7 | 26.9 | 22.7 | 11.58 |
| 1,70V / cell | 289 | 289 | 289 | 217 | 170 | 137 | 91.1 | 83.4 | 59.8 | 43.6 | 40.5 | 32.3 | 26.7 | 22.4 | 11.41 |
| 1,75V / cell | 266 | 266 | 266 | 216 | 169 | 135 | 90.5 | 82.3 | 59.3 | 43.3 | 40.1 | 32.0 | 26.5 | 22.2 | 11.25 |
| 1,80V / cell | 238 | 238 | 238 | 206 | 162 | 131 | 89.5 | 80.7 | 58.7 | 42.9 | 38.9 | 31.6 | 26.2 | 22.0 | 11.09 |
| 1,85V / cell | 212 | 212 | 212 | 188 | 149 | 122 | 86.7 | 76.8 | 55.4 | 41.6 | 37.0 | 30.7 | 25.2 | 21.3 | 10.81 |

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 | 405 | 323 | 265 | 181 | 166 | 119 | 86.3 | 80.1 | 64.2 | 52.8 | 44.5 | 23.0 |
| 1,65V / cell | 512 | 512 | 512 | 398 | 319 | 263 | 179 | 164 | 118 | 85.5 | 79.4 | 63.7 | 52.4 | 44.2 | 22.7 |
| 1,70V / cell | 491 | 491 | 491 | 391 | 315 | 261 | 177 | 162 | 116 | 84.6 | 78.5 | 62.7 | 52.1 | 43.7 | 22.4 |
| 1,75V / cell | 452 | 452 | 452 | 388 | 313 | 258 | 176 | 160 | 115 | 83.9 | 77.6 | 62.2 | 51.7 | 43.3 | 22.0 |
| 1,80V / cell | 404 | 404 | 404 | 371 | 301 | 251 | 174 | 157 | 114 | 83.1 | 75.5 | 61.3 | 51.1 | 42.8 | 21.7 |
| 1,85V / cell | 363 | 363 | 363 | 341 | 278 | 234 | 169 | 150 | 108 | 81.1 | 72.1 | 59.9 | 49.3 | 41.8 | 21.3 |