

OPG2-600 (2V600AH C10 @25°C)



Features

- § Tubular plates
- § DIN standard
- § ABS case, Flame Retardant V0 is available
- § Gel technology
- § Stable quality and high reliability
- § 25 years design life (at 25°C)

Application

- § Solar and Wind system
- § Alarm and security system
- § Telecommunication system
- § UPS
- § Emergency lighting
- § Auto control system
- § Electronic apparatus and equipment
- § Communication power supply
- § DC power supply

Specification

| | | | | |
|------------------------|---------------------------------------|------------------------------|---|--------------------------------------|
| Nominal Voltage | 2V (1 cells) | Operating Temp.Range | Maximum: -40~55°C (-40~131°F) | |
| Nominal Capacity | 611.6AH (20hr, 1.80V/cell, 25°C/77°F) | | Recommended: -15~50°C (5~122°F) | |
| | 600AH (10hr, 1.80V/cell, 25°C/77°F) | Storage: -20~40°C (-4~104°F) | | |
| | 534AH (5hr, 1.75V/cell, 25°C/77°F) | Nominal Operating Temp.Range | 25 ± 5°C | |
| | 360AH (1hr, 1.60V/cell, 25°C/77°F) | Cycle Use | 2.35~2.40V Temp.Coefficient -5mV/°C Initial Charging Current Less Than 150A | |
| Dimension | Length | 145 ± 2mm | Standby Use | 2.23V Temp.Coefficient -3mV/°C |
| | Width | 206 ± 2mm | | No limit on Initial Charging Current |
| | Container Height | 646 ± 2mm | Capacity affected by Temperature | 40°C (104°F) 103% |
| | Total Height(with Terminal) | 678 ± 2mm | | 25°C (77°F) 100% |
| Approx Weight | Approx 44.6Kg | Self Discharge | 0°C (32°F) 86% | |
| Terminal | M8 | | OPG series batteries may be stored for up to 6 months At 25°C (77°F) and then a freshening charge is required For higher temperatures the time interval will be shorter | |
| Container Material | ABS | | | |
| Max. Discharge Current | 3000A (5S) | | | |
| Internal Resistance | Approx 0.42mΩ | | | |

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

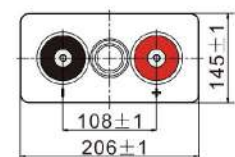
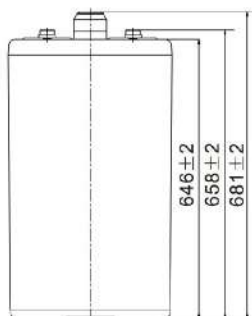
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 24h | 48h | 100h |
|----------|-------|-------|-----|-----|-----|-----|-------|------|------|------|-------|-------|-------|------|
| 1.60V | 624 | 490 | 356 | 223 | 160 | 128 | 108.4 | 95.3 | 76.9 | 63.0 | 32.22 | 27.93 | 15.33 | 8.56 |
| 1.65V | 588 | 466 | 336 | 217 | 157 | 125 | 107.2 | 94.1 | 76.3 | 62.7 | 31.99 | 27.72 | 15.29 | 8.53 |
| 1.70V | 555 | 446 | 330 | 211 | 154 | 124 | 105.7 | 92.7 | 75.4 | 62.4 | 31.75 | 27.52 | 15.06 | 8.34 |
| 1.75V | 520 | 422 | 309 | 205 | 151 | 122 | 104.0 | 90.9 | 74.0 | 61.5 | 31.52 | 27.05 | 14.97 | 8.22 |
| 1.80V | 484 | 395 | 294 | 199 | 149 | 119 | 101.6 | 88.5 | 72.2 | 60.0 | 30.58 | 26.46 | 14.70 | 7.94 |
| 1.85V | 446 | 359 | 276 | 187 | 143 | 116 | 98.3 | 85.5 | 70.1 | 58.8 | 30.11 | 25.58 | 13.82 | 7.64 |
| 1.90V | 380 | 303 | 232 | 166 | 128 | 107 | 91.5 | 79.0 | 63.6 | 52.9 | 27.05 | 23.52 | 12.94 | 7.06 |

Constant Power Discharge (Watts per cell at 25°C/77°F)

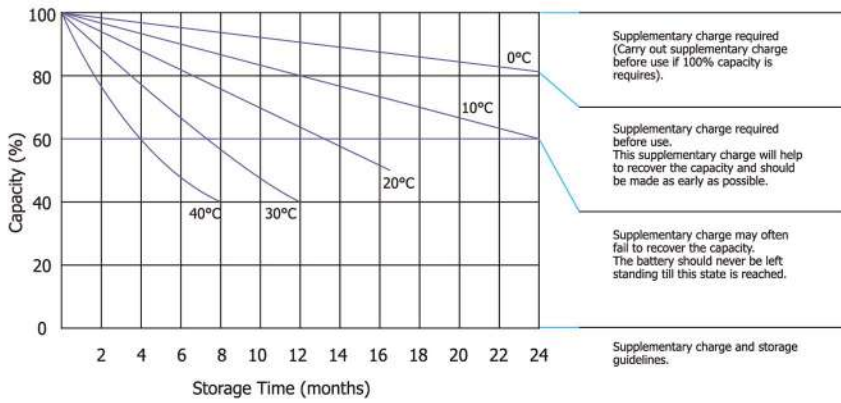
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h | 24h | 48h | 100h |
|----------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 1075 | 861 | 650 | 416 | 303 | 242 | 205.8 | 181.5 | 147.0 | 120.6 | 61.86 | 55.57 | 30.54 | 17.07 |
| 1.65V | 1028 | 817 | 612 | 407 | 298 | 237 | 204.0 | 179.7 | 146.1 | 120.3 | 61.62 | 55.27 | 30.48 | 17.00 |
| 1.70V | 971 | 784 | 603 | 398 | 294 | 237 | 202.0 | 177.3 | 144.9 | 120.0 | 61.39 | 54.98 | 30.15 | 16.68 |
| 1.75V | 918 | 751 | 576 | 389 | 290 | 233 | 199.3 | 174.6 | 142.6 | 118.8 | 61.15 | 54.10 | 29.99 | 16.46 |
| 1.80V | 867 | 722 | 552 | 380 | 285 | 228 | 195.4 | 170.5 | 139.3 | 115.5 | 59.51 | 53.21 | 29.56 | 15.96 |
| 1.85V | 805 | 665 | 526 | 359 | 276 | 225 | 191.3 | 166.6 | 136.6 | 114.9 | 59.04 | 52.04 | 28.11 | 15.55 |
| 1.90V | 695 | 567 | 446 | 323 | 249 | 209 | 179.4 | 155.0 | 124.7 | 104.0 | 53.63 | 48.80 | 26.84 | 14.64 |

Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

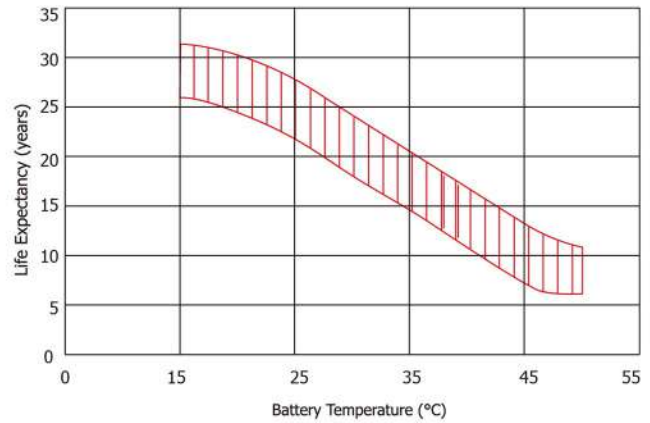
Dimension



Storage Characteristics Curve

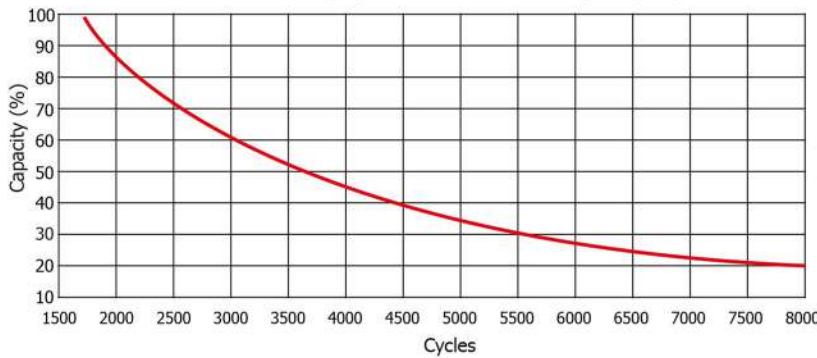


Effect Of Temperature On Float Life

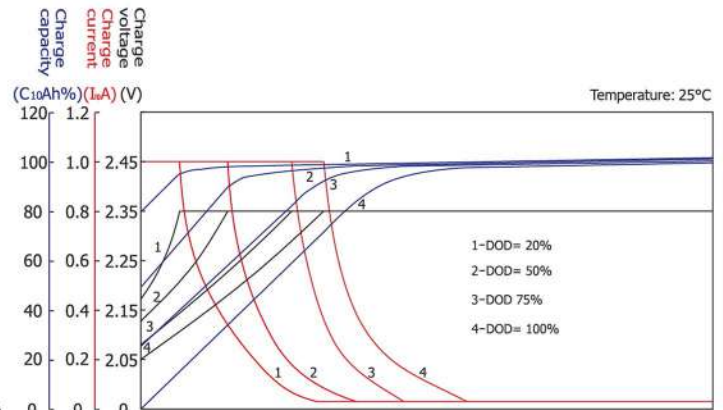


Cycle Life With Depth Of Discharge (D.O.D.)

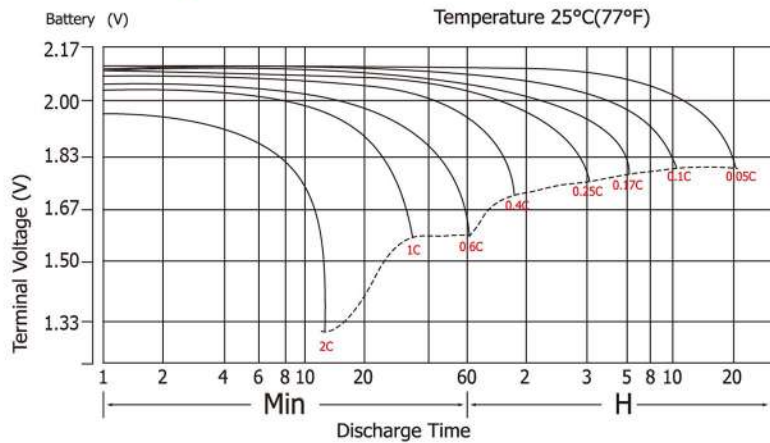
Testing condition: Acc. to IEC 60896 (25°C-30°C)
 Discharging: current 0.17C(FV 1.7V/cell);
 Charging: current 0.25C max, voltage 2.45V/cell;
 Charging volume: 125% of discharged capacity.



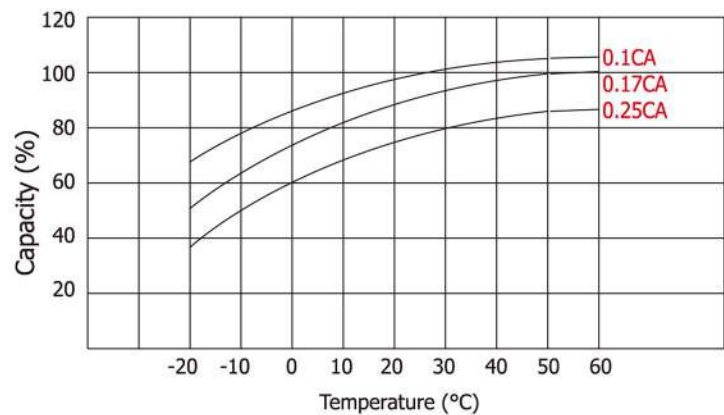
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

