

## OPzV2-600 2Volt 600Ah

### OPzV Series Battery

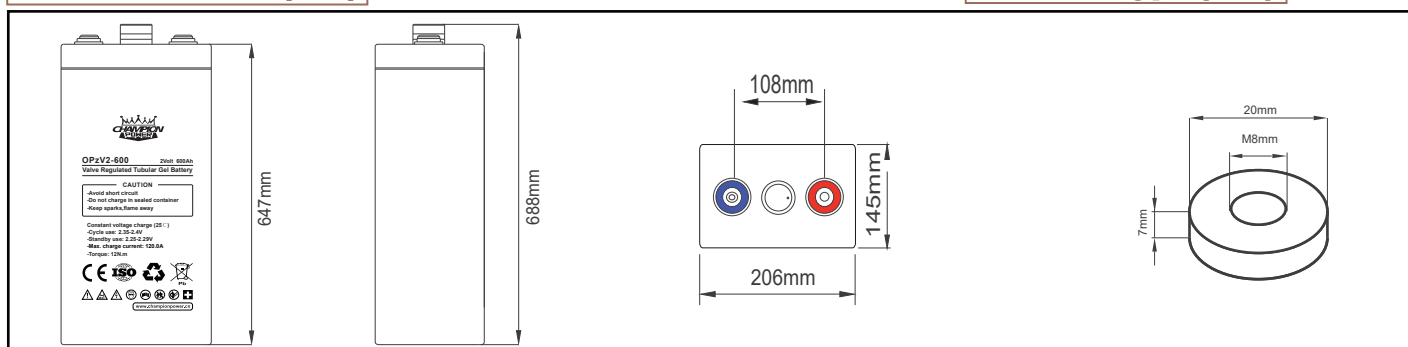
OPzV series adopts an Immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the DIN standard values and offer 25+ years design life in float service. It is very suitable for cyclic use under extreme operating conditions. This series is recommended for telecom outdoor applications, solar system and other harsh environment applications.

### Specification

|                                  |   |          |        |              |
|----------------------------------|---|----------|--------|--------------|
| Battery Model                    | Nominal Voltage                           | 2V       |        |              |
|                                  | Rated Capacity (10Hour rate)              | 600Ah    |        |              |
| Floating Design Life @ 20°C      | 25+ years                                 |          |        |              |
| Dimension                        | Length                                    | Width    | Height | Total Height |
|                                  | 145mm                                     | 206mm    | 647mm  | 688mm        |
| Approx Weight                    | 45.00Kg                                   |          |        |              |
| Internal Resistance              | Full charged at 20°C(77°F): Approx 0.63mΩ |          |        |              |
| Max.Chargr Current               | 120A                                      |          |        |              |
| Max.Discharge Current            | 2000A(5s)                                 |          |        |              |
| Short Circuit Current            | 3100A                                     |          |        |              |
| Self Discharge                   | Approx. 2% per month @20°C                |          |        |              |
| Ambient Temperature              | Discharge                                 | -40~65°C |        |              |
|                                  | Charge                                    | -30~65°C |        |              |
|                                  | Storage                                   | -25~40°C |        |              |
| Float Charge Voltage(20~25°C)    | 2.25~2.29V (-3mV/°C/cell)                 |          |        |              |
| Equalize Charge Voltage(20~25°C) | 2.35~2.40V(-5mV/°C/cell)                  |          |        |              |
| Terminal Type                    | Female copper insert M8 (torque:10~12N.m) |          |        |              |
| Container Material               | ABS (UL94-V0 optional)                    |          |        |              |

### Outer dimension (mm)

### Terminal Type (mm)



### Constant Current Discharge Characteristics:Amps 20°C

| F.V/Time | 10min | 15min | 30min | 1h  | 2h  | 3h  | 5h   | 8h   | 10h  |
|----------|-------|-------|-------|-----|-----|-----|------|------|------|
| 1.90V    | 220   | 214   | 200   | 168 | 143 | 120 | 88.9 | 63.6 | 52.5 |
| 1.87V    | 300   | 280   | 248   | 196 | 160 | 132 | 96.4 | 67.5 | 55.5 |
| 1.85V    | 345   | 316   | 272   | 214 | 176 | 142 | 103  | 70.6 | 57.7 |
| 1.83V    | 402   | 352   | 294   | 236 | 188 | 150 | 105  | 72.9 | 58.8 |
| 1.80V    | 450   | 408   | 329   | 260 | 199 | 158 | 107  | 73.8 | 60.0 |
| 1.75V    | 477   | 448   | 386   | 283 | 208 | 162 | 109  | 75.0 | 61.8 |
| 1.70V    | 519   | 492   | 424   | 299 | 216 | 165 | 111  | 76.2 | 63.0 |
| 1.65V    | 606   | 554   | 462   | 318 | 222 | 168 | 113  | 77.4 | 64.2 |
| 1.60V    | 660   | 608   | 490   | 328 | 226 | 171 | 116  | 78.9 | 65.4 |

### Long Time Dscharge Capacity

| Capacity (Ah) | C <sub>10</sub> | C <sub>20</sub> | C <sub>24</sub> | C <sub>48</sub> | C <sub>72</sub> | C <sub>100</sub> | C <sub>120</sub> | C <sub>240</sub> |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
|               |                 | 600             | 654             | 678             | 732             | 756              | 766              | 774              |
| Final Voltage | 1.80V / 1.85V   |                 |                 |                 |                 |                  |                  |                  |

### Parameters Settings

|                              |                            |
|------------------------------|----------------------------|
| Over voltage disconnect      | 2.45±0.01V/cell @ 20~25°C  |
| Regulation/equalize voltage  | 2.40±0.01V/cell @ 20~25°C  |
| Array reconnection voltage   | 2.25±0.005V/cell @ 20~25°C |
| Float voltage setting        | 2.27±0.005V/cell @ 20~25°C |
| Low voltage alarm voltage    | 1.95±0.005V/cell @ 20~25°C |
| Low voltage disconnect       | 1.90±0.005V/cell @ 20~25°C |
| Load reconnect voltage       | 2.09±0.01V/cell @ 20~25°C  |
| Temp. compensate coefficient | -5mV/cell/°C               |

### Constant Power Discharge Characteristics:W/caell 20°C

| F.V/Time | 10min | 15min | 30min | 1h  | 2h  | 3h  | 5h  | 8h  | 10h |
|----------|-------|-------|-------|-----|-----|-----|-----|-----|-----|
| 1.90V    | 425   | 414   | 389   | 330 | 283 | 239 | 178 | 128 | 106 |
| 1.87V    | 568   | 533   | 475   | 379 | 313 | 260 | 191 | 135 | 111 |
| 1.85V    | 644   | 593   | 514   | 409 | 341 | 277 | 202 | 140 | 115 |
| 1.83V    | 742   | 653   | 549   | 445 | 360 | 290 | 204 | 142 | 116 |
| 1.80V    | 819   | 746   | 607   | 485 | 375 | 301 | 206 | 143 | 117 |
| 1.75V    | 854   | 806   | 702   | 520 | 386 | 304 | 207 | 144 | 119 |
| 1.70V    | 917   | 873   | 761   | 543 | 397 | 307 | 209 | 145 | 120 |
| 1.65V    | 1051  | 968   | 816   | 569 | 403 | 308 | 210 | 146 | 121 |
| 1.60V    | 1122  | 1041  | 849   | 577 | 405 | 309 | 213 | 147 | 122 |



## OPzV2-600 2Volt 600Ah

