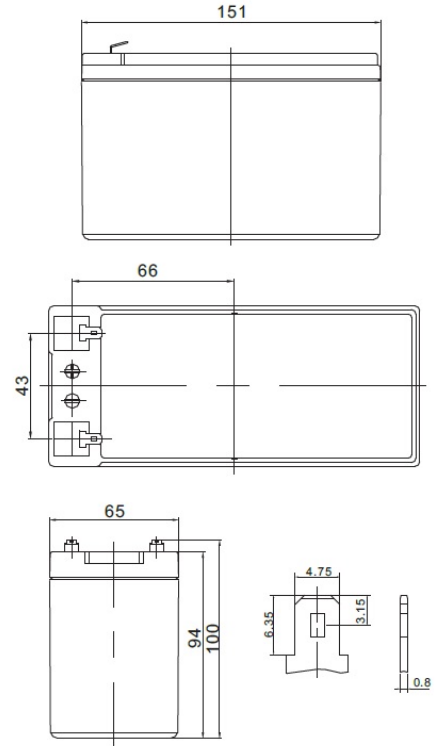


| | | |
|---|---|-----------------|
| Nominal voltage | 12 V | |
| Nominal capacity | 9,0 Ah @ C20 to 1,75 V/cell | |
| Dimensions | Length | 151 mm |
| | Width | 65 mm |
| | Height / Total height | 94 / 100 mm |
| Weight | ~ 2,6 kg | |
| Technology | VRLA (Valve Regulated Lead Acid) AGM (Absorbent Glass Mat) | |
| Design life time | 10-12 years (standby use) | |
| Internal resistance | ~ 22,0 mΩ (full charged) | |
| Operating temperature range | Discharge | -20°C ~ +60°C |
| | Charge | 0°C ~ +50°C |
| | Storage | -20°C ~ +60°C |
| Maximum discharge current | 90 A (5 sec.) | |
| Recommended maximum charging current | 2,7 A | |
| Charging voltage | Standby use | 13,7 ~ 13,9 VDC |
| | Cycle use | 14,6 ~ 14,8 VDC |
| Self discharge | Monthly is less than 3% at 25°C | |
| Container material | ABS UL94HB (optional UL94-V0) | |
| Terminal types | fast-on 4,8 mm | |



CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

| Napięcie / czas | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h | 20 h |
|-----------------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.6 V | 35,17 | 24,62 | 17,62 | 10,12 | 5,499 | 3,376 | 2,538 | 2,049 | 1,698 | 1,093 | 0,887 | 0,469 |
| 10.0 V | 32,71 | 23,26 | 16,85 | 9,716 | 5,310 | 3,268 | 2,460 | 1,994 | 1,654 | 1,080 | 0,877 | 0,461 |
| 10.2 V | 29,51 | 21,41 | 15,78 | 9,287 | 5,137 | 3,161 | 2,393 | 1,939 | 1,611 | 1,064 | 0,863 | 0,456 |
| 10.5 V | 26,44 | 19,60 | 14,68 | 8,876 | 4,950 | 3,050 | 2,321 | 1,890 | 1,570 | 1,049 | 0,852 | 0,450 |
| 10.8 V | 23,21 | 17,74 | 13,56 | 8,484 | 4,760 | 2,941 | 2,250 | 1,835 | 1,530 | 1,031 | 0,841 | 0,446 |
| 11.1 V | 18,43 | 14,50 | 11,25 | 7,307 | 4,270 | 2,695 | 2,080 | 1,706 | 1,426 | 0,968 | 0,792 | 0,423 |

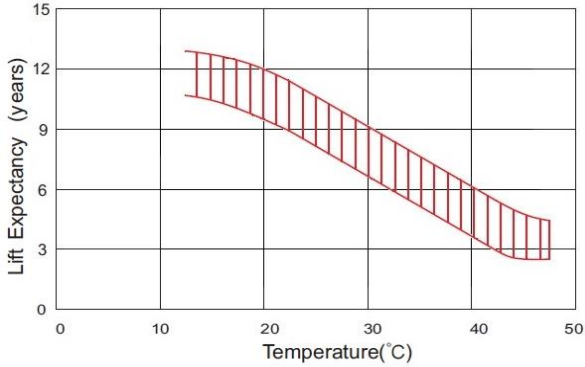
CONSTANT POWER DISCHARGE CHARACTERISTICS (W at 25°C)

| Napięcie / czas | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h | 20 h |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 9.6 V | 349,83 | 251,05 | 184,82 | 110,29 | 62,00 | 38,393 | 29,085 | 23,603 | 19,635 | 12,804 | 10,467 | 5,536 |
| 10.0 V | 329,08 | 241,81 | 179,31 | 106,99 | 60,22 | 37,348 | 28,306 | 23,050 | 19,197 | 12,687 | 10,354 | 5,456 |
| 10.2 V | 303,66 | 226,70 | 170,45 | 103,29 | 58,623 | 36,317 | 27,659 | 22,508 | 18,763 | 12,519 | 10,211 | 5,397 |
| 10.5 V | 278,10 | 211,25 | 160,93 | 99,74 | 56,821 | 35,211 | 26,948 | 22,015 | 18,354 | 12,370 | 10,089 | 5,337 |
| 10.8 V | 249,39 | 194,56 | 150,70 | 96,29 | 54,965 | 34,122 | 26,217 | 21,459 | 17,944 | 12,187 | 9,973 | 5,291 |
| 11.1 V | 202,12 | 161,83 | 126,82 | 83,76 | 49,600 | 31,434 | 24,345 | 20,022 | 16,789 | 11,468 | 9,402 | 5,031 |

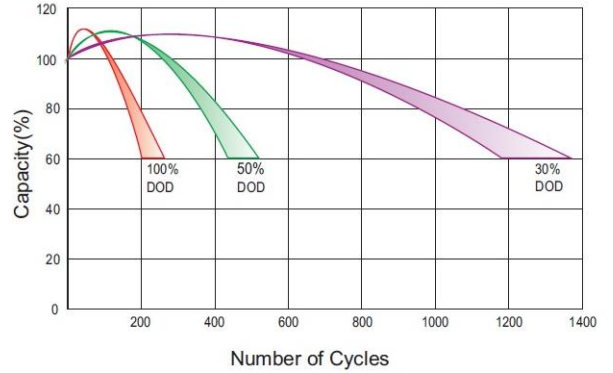
ACCORDING WITH:

| | |
|---------------------|-----------|
| PN-EN 60896-21:2007 | ISO 9001 |
| PN-EN 60896-22:2007 | ISO 14001 |
| PN-EN 61056-1:2013 | |
| PN-EN 61056-2:2013 | |
| PN-E-83016:1999 | |

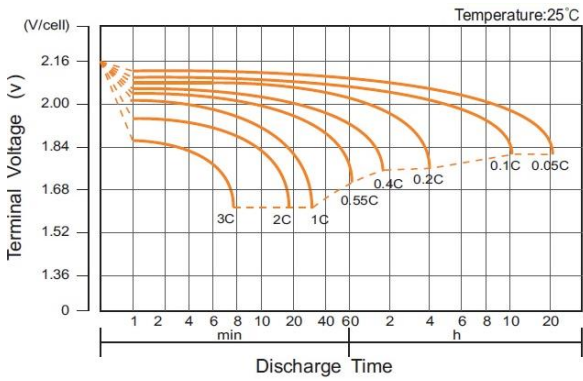
EFFECT OF TEMPERATURE ON LONG TERM LIFE



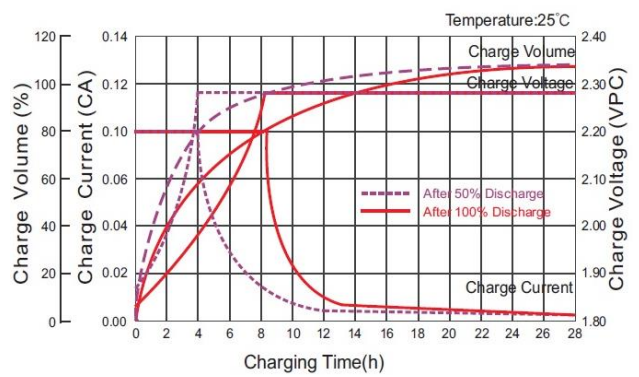
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



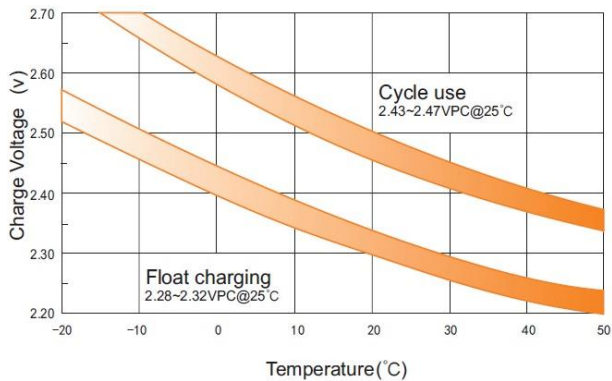
DISCHARGE CHARACTERISTICS



CHARGE CHARACTERISTIC FOR STANDBY USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



STORAGE CHARACTERISTICS

