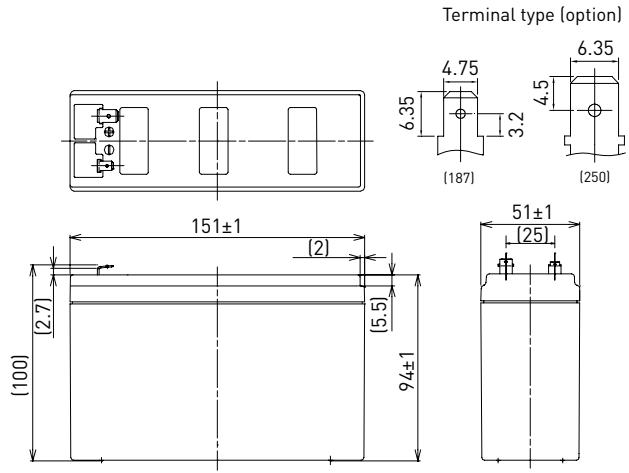


UP-VWA1232P

FOR STANDBY POWER SUPPLIES.  
 EXPECTED TRICKLE DESIGN LIFE: 6 – 9 YEARS AT 20°C  
 ACCORDING TO EUROBAT.

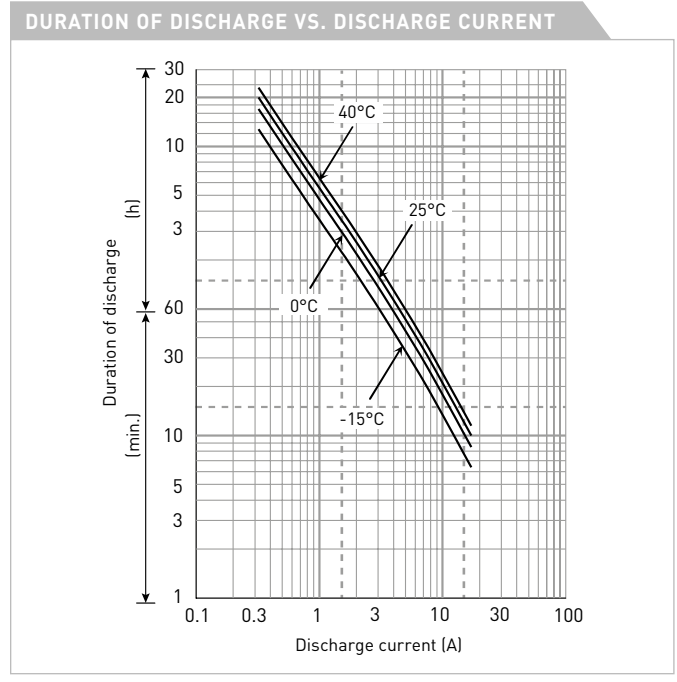
DIMENSIONS (MM)



Contents indicated (including the recycle marking, etc.) are subject to change without notice.

Battery case resin: flame retardant (UL94 V-0)

| SPECIFICATIONS                                    |                              |       |
|---|------------------------------|-------|
| Name  | UP-VWA1232P1/P2              |       |
| Nominal voltage                                   | 12V                          |       |
| Rated power (cell@10MR)                           | 32W                          |       |
| Dimensions  | Length                       | 151mm |
|   | Width                        | 51mm  |
|   | Height                       | 100mm |
| Approx. mass                                      | 2.00kg                       |       |
| Terminal  | Faston 250 & 187/250         |       |
| Capacity (25°C)                                   | 30 minute rate               | 97W   |
|   | 15 minute rate               | 165W  |
|   | 10 minute rate               | 210W  |
|   | 5 minute rate                | 339W  |
| Impedance   | Fully charged battery (25°C) | 25mΩ  |
|   |                              |       |
| Temperature dependency of capacity (20 hour rate) | 40°C                         | 102%  |
|   | 25°C                         | 100%  |
|   | 0°C                          | 85%   |
|   | -15°C                        | 65%   |
| Self-discharge (25°C)                             | After 3 month                | 91%   |
|   | After 6 month                | 82%   |
|   | After 12 month               | 64%   |



| WATT TABLE (25°C) |       |       |        |        |        |        |        |      |      |      |      |      |      |      |      | (Wattage/battery) |
|-------------------|-------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|-------------------|
| Cut-off           | 3min. | 5min. | 10min. | 15min. | 20min. | 30min. | 45min. | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 10h  | 20h               |
| 9.6V              | 444   | 339   | 210    | 165    | 130    | 97.0   | 71.1   | 56.9 | 41.8 | 31.5 | 22.5 | 16.6 | 13.8 | 11.7 | 7.39 | 3.86              |
| 9.9V              | 418   | 290   | 179    | 157    | 127    | 95.0   | 70.7   | 55.5 | 40.9 | 31.3 | 22.4 | 16.5 | 13.7 | 11.4 | 7.36 | 3.85              |
| 10.2V             | 391   | 276   | 174    | 149    | 124    | 93.0   | 67.7   | 53.9 | 38.8 | 29.6 | 21.5 | 15.9 | 13.2 | 11.2 | 7.04 | 3.72              |
| 10.5V             | 355   | 251   | 166    | 143    | 118    | 89.5   | 65.9   | 52.8 | 37.3 | 28.6 | 20.3 | 15.8 | 13.1 | 11.1 | 7.01 | 3.71              |
| 10.8V             | 318   | 226   | 157    | 137    | 113    | 86.0   | 61.7   | 48.8 | 34.8 | 25.5 | 19.5 | 14.6 | 12.0 | 10.3 | 6.53 | 3.47              |

| AMPERE TABLE (25°C) |       |       |        |        |        |        |        |      |      |      |      |      |      |       |       | (Ampere/battery) |
|---------------------|-------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|-------|-------|------------------|
| Cut-off             | 3min. | 5min. | 10min. | 15min. | 20min. | 30min. | 45min. | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h    | 10h   | 20h              |
| 9.6V                | 36.9  | 27.8  | 17.1   | 13.7   | 11.0   | 8.29   | 6.06   | 4.83 | 3.31 | 2.56 | 1.89 | 1.45 | 1.19 | 0.958 | 0.634 | 0.344            |
| 9.9V                | 34.7  | 26.5  | 16.7   | 13.0   | 10.7   | 8.12   | 6.02   | 4.71 | 3.25 | 2.54 | 1.88 | 1.44 | 1.18 | 0.954 | 0.631 | 0.343            |
| 10.2V               | 32.5  | 25.2  | 16.3   | 12.3   | 10.3   | 7.95   | 5.77   | 4.58 | 3.08 | 2.40 | 1.80 | 1.38 | 1.14 | 0.916 | 0.604 | 0.331            |
| 10.5V               | 29.5  | 22.9  | 15.5   | 11.8   | 9.90   | 7.65   | 5.61   | 4.48 | 2.96 | 2.32 | 1.76 | 1.33 | 1.07 | 0.906 | 0.602 | 0.320            |
| 10.8V               | 26.4  | 20.6  | 14.6   | 11.3   | 9.48   | 7.35   | 5.26   | 4.14 | 2.76 | 2.07 | 1.64 | 1.28 | 1.03 | 0.838 | 0.560 | 0.309            |

All mentioned values are average values

UP-VWA1232P

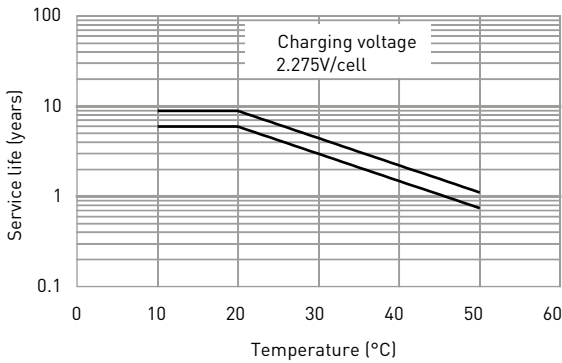
CHARGING METHOD (25°C)

**Trickle use** Control voltage: 13.6V - 13.8V  
Initial current: 0.900A or smaller

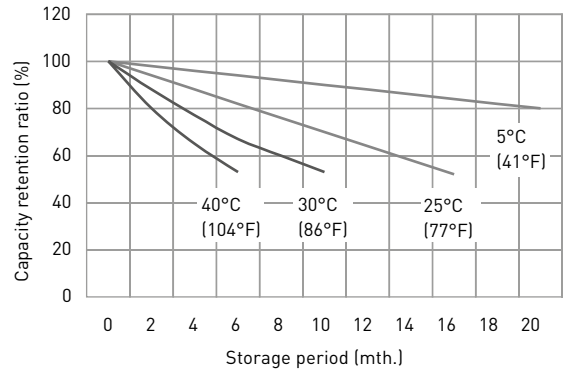
CUT-OFF VOLTAGE

|                          |                |               |               |               |               |
|--------------------------|----------------|---------------|---------------|---------------|---------------|
| <b>Discharge current</b> | 0.300A - 1.20A | 1.20A - 3.00A | 3.00A - 6.00A | 6.00A - 12.0A | 12.0A - 18.0A |
| <b>Cut-off voltage</b>   | 10.5V          | 10.2V         | 9.9V          | 9.3V          | 8.7V          |

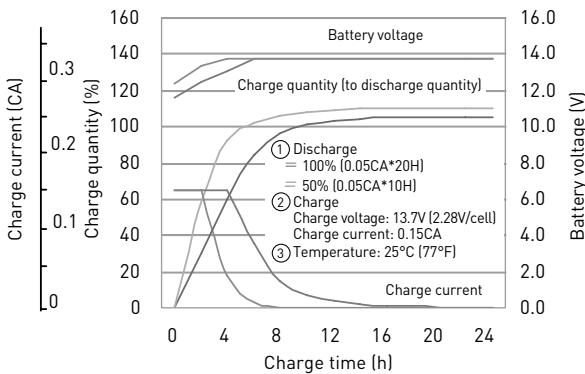
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



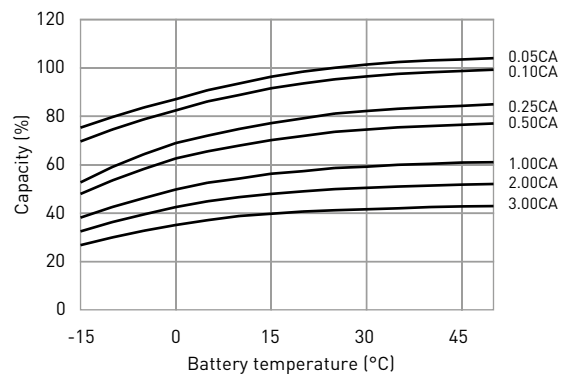
RESIDUAL CAPACITY TEST RESULT



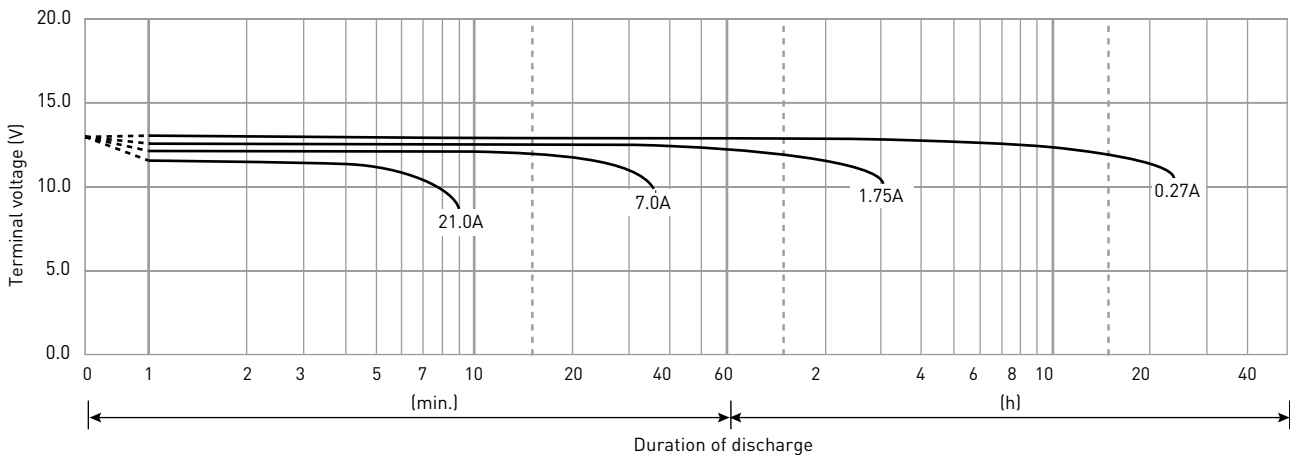
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



DISCHARGE CAPACITY BY TEMPERATURE AND BY DISCHARGE CURRENT



DISCHARGE CHARACTERISTICS



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