

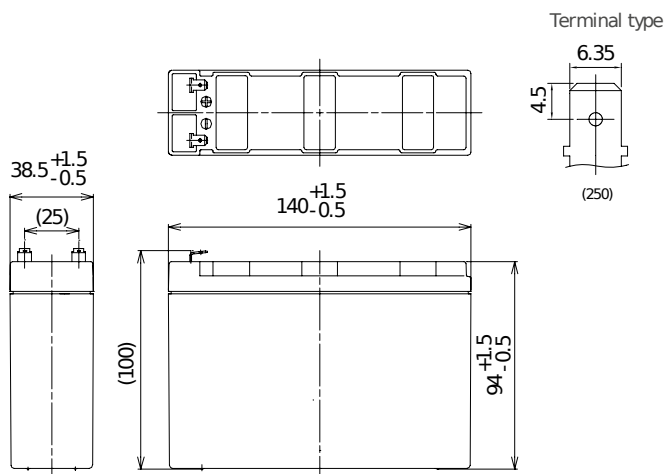
UP-VW1220P

DIMENSIONS (MM)



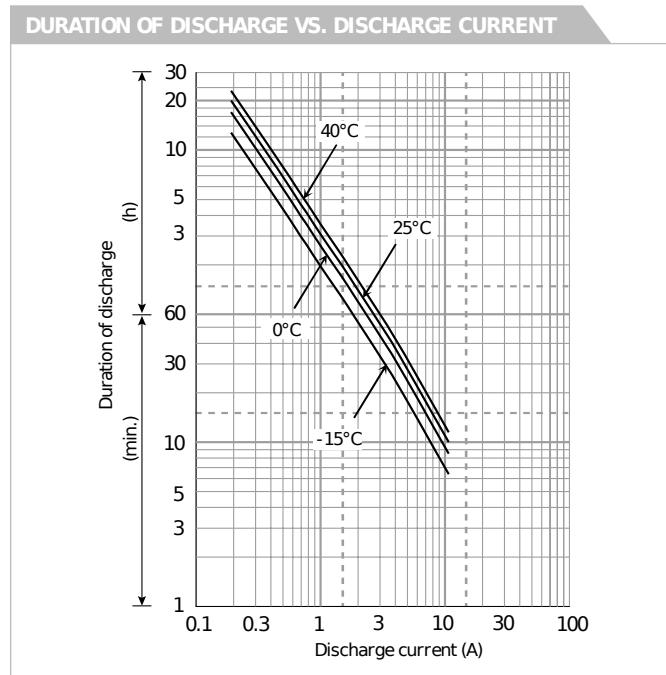
Contents indicated (including the recycle marking, etc.) are subject to change without notice.

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



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

| SPECIFICATIONS | | |
|---|------------------------------|--------|
| Name | UP-VW1220P1 | |
| Nominal voltage | 12V | |
| Rated power (cell@10MR) | 20W | |
| Dimensions | Length | 140mm |
| | Width | 38.5mm |
| | Height | 100mm |
| Approx. mass | 1.30kg | |
| Terminal | Faston 250 | |
| Capacity (25°C) | 30 minute rate | 57W |
| | 15 minute rate | 91W |
| | 10 minute rate | 120W |
| | 5 minute rate | 180W |
| Impedance | Fully charged battery (25°C) | 40mΩ |
| | | |
| Temperature dependency of capacity (20 hour rate) | 40°C | 102% |
| | 25°C | 100% |
| | 0°C | 85% |
| | -15°C | 65% |
| Remaining capacity (25°C) | After 3 month | 91% |
| | After 6 month | 82% |
| | After 12 month | 64% |



| WATT TABLE (25°C) | | | | | | | | | | | | | | | | (Wattage/battery) | |
|-------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|--|
| 9.6V | 237 | 180 | 120 | 91.0 | 75.0 | 57.0 | 41.8 | 33.4 | 23.0 | 17.8 | 13.2 | 10.2 | 8.39 | 6.75 | 4.47 | 2.42 | |
| 9.9V | 227 | 173 | 116 | 89.1 | 74.0 | 54.5 | 39.3 | 31.6 | 21.3 | 16.7 | 12.5 | 9.56 | 7.88 | 6.36 | 4.21 | 2.29 | |
| 10.2V | 217 | 167 | 113 | 87.0 | 73.0 | 52.0 | 37.9 | 30.2 | 20.3 | 15.9 | 12.0 | 9.24 | 7.60 | 6.14 | 4.05 | 2.22 | |
| 10.5V | 197 | 152 | 108 | 84.5 | 69.5 | 49.5 | 35.4 | 28.3 | 18.7 | 14.8 | 11.6 | 8.86 | 7.26 | 5.83 | 3.88 | 2.12 | |
| 10.8V | 177 | 137 | 102 | 82.0 | 66.0 | 47.0 | 33.7 | 26.6 | 17.8 | 13.4 | 10.7 | 8.33 | 6.77 | 5.49 | 3.68 | 2.02 | |

| AMPERE TABLE (25°C) | | | | | | | | | | | | | | | | (Ampere/battery) | |
|---------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------------------|--|
| 9.6V | 21.3 | 16.1 | 10.7 | 7.91 | 6.47 | 4.87 | 3.56 | 2.84 | 1.95 | 1.50 | 1.11 | 0.851 | 0.701 | 0.563 | 0.373 | 0.231 | |
| 9.9V | 20.4 | 15.6 | 10.4 | 7.75 | 6.38 | 4.62 | 3.35 | 2.68 | 1.80 | 1.41 | 1.05 | 0.800 | 0.658 | 0.530 | 0.351 | 0.217 | |
| 10.2V | 19.5 | 15.0 | 10.1 | 7.57 | 6.29 | 4.44 | 3.23 | 2.56 | 1.72 | 1.34 | 1.01 | 0.773 | 0.635 | 0.512 | 0.338 | 0.211 | |
| 10.5V | 17.7 | 13.7 | 9.60 | 7.35 | 5.99 | 4.23 | 3.02 | 2.41 | 1.59 | 1.25 | 0.971 | 0.742 | 0.606 | 0.487 | 0.323 | 0.202 | |
| 10.8V | 15.9 | 12.3 | 9.11 | 7.13 | 5.69 | 4.02 | 2.87 | 2.26 | 1.51 | 1.13 | 0.895 | 0.697 | 0.565 | 0.458 | 0.306 | 0.193 | |

All mentioned values are average values

UP-VW1220P

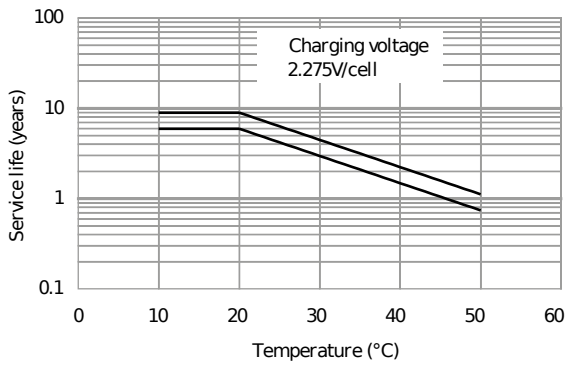
CHARGING METHOD (25°C)

Trickle use Control voltage: 13.6V - 13.8V
Initial current: 0.600A or smaller

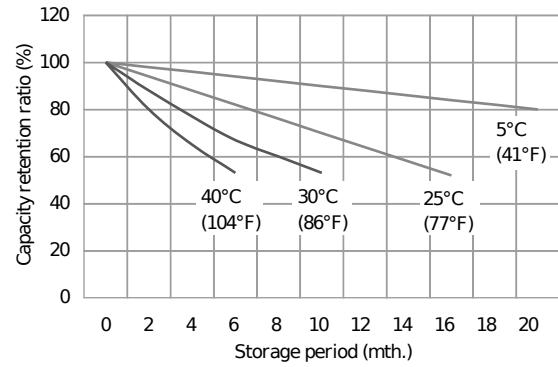
CUT-OFF VOLTAGE

| | | | | | |
|--------------------------|-----------------|----------------|---------------|---------------|---------------|
| Discharge current | 0.200A - 0.800A | 0.800A - 2.00A | 2.00A - 4.00A | 4.00A - 8.00A | 8.00A - 12.0A |
| Cut-off voltage | 10.5V | 10.2V | 9.9V | 9.3V | 8.7V |

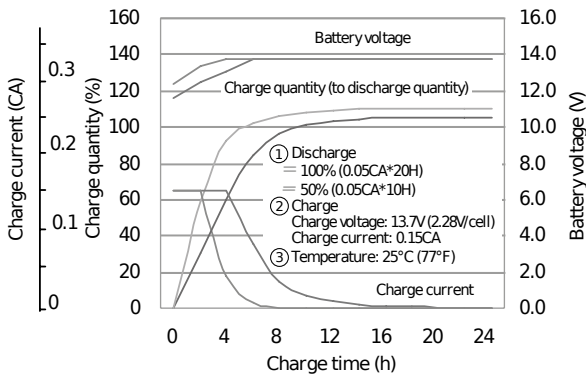
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



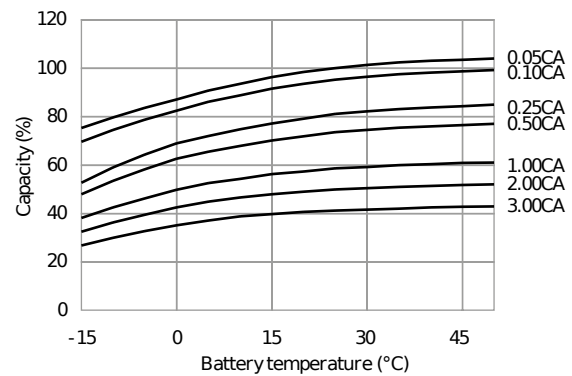
RESIDUAL CAPACITY TEST RESULT



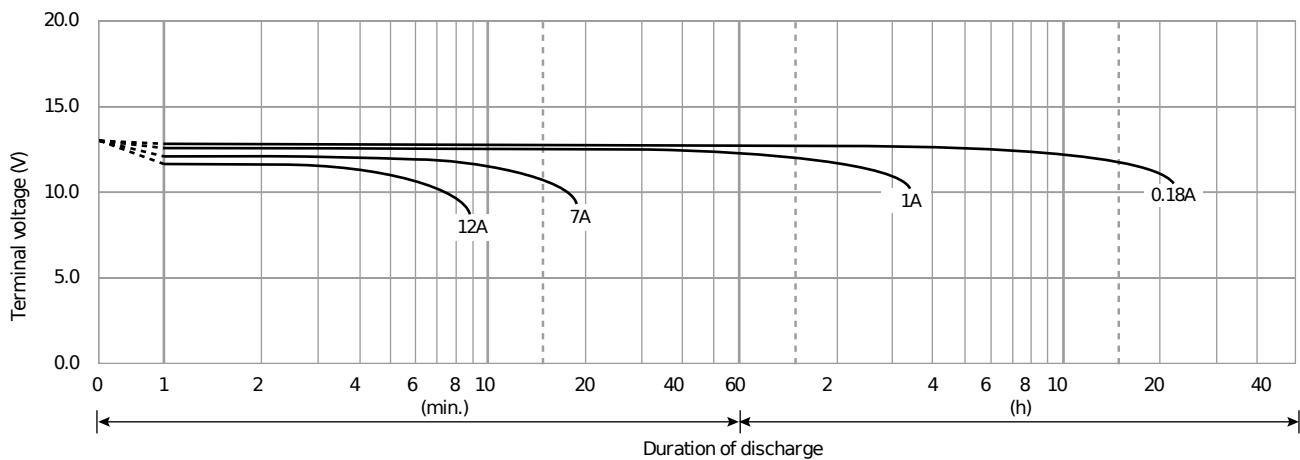
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



DISCHARGE CAPACITY BY TEMPERATURE AND BY DISCHARGE CURRENT



DISCHARGE CHARACTERISTICS



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