

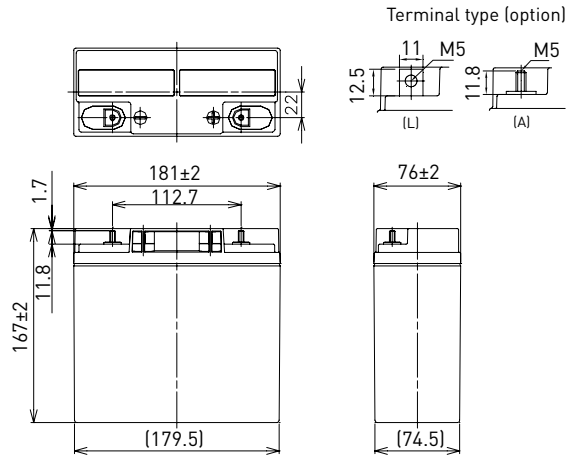
LC-P1220P

DIMENSIONS (MM)



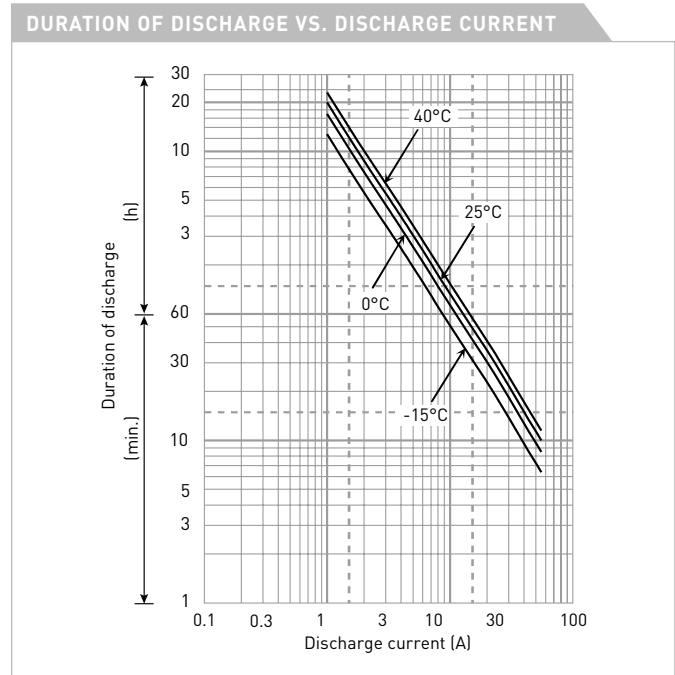
Contents indicated (including the recycle marking, etc.) are subject to change without notice.

FOR STANDBY POWER SUPPLIES.
EXPECTED TRICKLE DESIGN LIFE: 10 - 12 YEARS AT 20°C
ACCORDING TO EUROBAT.



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

| SPECIFICATIONS | | LC-P1220P/AP |
|---|----------------|-----------------------------------|
| Name | | LC-P1220P/AP |
| Nominal voltage | | 12V |
| Nominal capacity (20 hour rate) | | 20Ah |
| Dimensions | Length | 181mm |
| | Width | 76mm |
| | Height | 167mm |
| Approx. mass | | 5.80kg |
| Terminal | | M5 bolt/nut & threaded post |
| Capacity (25°C) | 20 hour rate | 20Ah |
| | 10 hour rate | 17Ah |
| | 3 hour rate | 15Ah |
| | 1 hour rate | 12Ah |
| Impedance | | Fully charged battery (25°C) 15mΩ |
| 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] | |
|-------------------|-------|--------|--------|--------|--------|--------|-----|------|------|------|------|------|------|------|-------------------|--|
| Cut-off | 5min. | 10min. | 15min. | 20min. | 30min. | 45min. | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h | |
| 9.6V | 853 | 557 | 425 | 357 | 266 | 188 | 150 | 103 | 83.1 | 61.9 | 47.5 | 39.2 | 31.5 | 21.6 | 11.7 | |
| 9.9V | 800 | 546 | 423 | 351 | 263 | 186 | 148 | 101 | 82.5 | 61.5 | 47.2 | 38.9 | 31.4 | 21.5 | 11.7 | |
| 10.2V | 750 | 532 | 414 | 345 | 260 | 185 | 146 | 99.1 | 80.3 | 60.9 | 46.9 | 38.6 | 31.2 | 21.3 | 11.6 | |
| 10.5V | 672 | 493 | 385 | 328 | 254 | 182 | 145 | 97.0 | 77.5 | 60.0 | 46.6 | 38.3 | 30.8 | 21.2 | 11.6 | |
| 10.8V | 594 | 440 | 359 | 319 | 246 | 179 | 141 | 94.3 | 73.9 | 58.8 | 46.0 | 37.4 | 30.3 | 21.0 | 11.5 | |

| AMPERE TABLE (25°C) | | | | | | | | | | | | | | | [Ampere/battery] | |
|---------------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|------------------|--|
| Cut-off | 5min. | 10min. | 15min. | 20min. | 30min. | 45min. | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h | |
| 9.6V | 85.0 | 55.3 | 40.0 | 34.2 | 24.0 | 16.9 | 12.7 | 9.04 | 6.98 | 5.17 | 3.95 | 3.26 | 2.61 | 1.75 | 1.01 | |
| 9.9V | 79.7 | 54.2 | 39.7 | 33.6 | 23.7 | 16.8 | 12.6 | 8.86 | 6.92 | 5.14 | 3.93 | 3.23 | 2.60 | 1.75 | 1.01 | |
| 10.2V | 74.7 | 52.8 | 38.9 | 33.1 | 23.5 | 16.6 | 12.4 | 8.68 | 6.74 | 5.09 | 3.90 | 3.20 | 2.58 | 1.73 | 1.00 | |
| 10.5V | 66.9 | 48.9 | 36.2 | 31.4 | 22.9 | 16.4 | 12.2 | 8.50 | 6.51 | 5.01 | 3.88 | 3.18 | 2.55 | 1.72 | 1.00 | |
| 10.8V | 59.2 | 43.6 | 33.8 | 30.6 | 22.2 | 16.1 | 12.0 | 8.27 | 6.20 | 4.91 | 3.82 | 3.10 | 2.51 | 1.70 | 0.994 | |

All mentioned values are average values

LC-P1220P

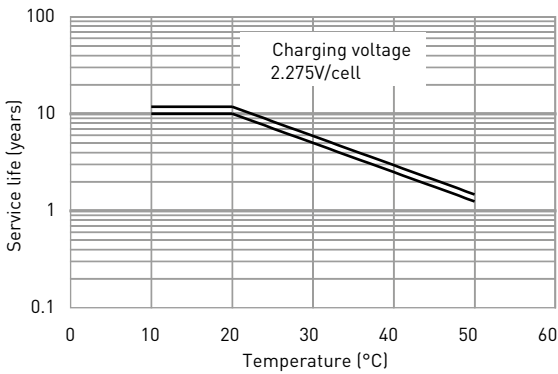
CHARGING METHOD (25°C)

Trickle use Control voltage: 13.6V - 13.8V
Initial current: 3.00A or smaller

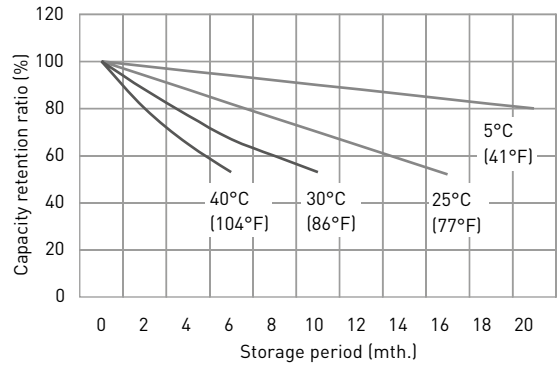
CUT-OFF VOLTAGE

| | | | | | |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Discharge current | 1.00A - 4.00A | 4.00A - 10.0A | 10.0A - 20.0A | 20.0A - 40.0A | 40.0A - 60.0A |
| Cut-off voltage | 10.5V | 10.2V | 9.9V | 9.3V | 8.7V |

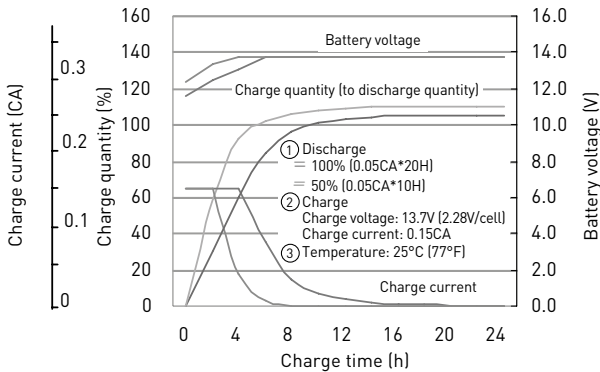
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



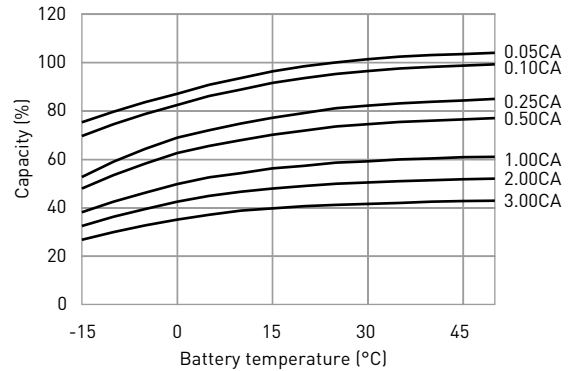
RESIDUAL CAPACITY TEST RESULT



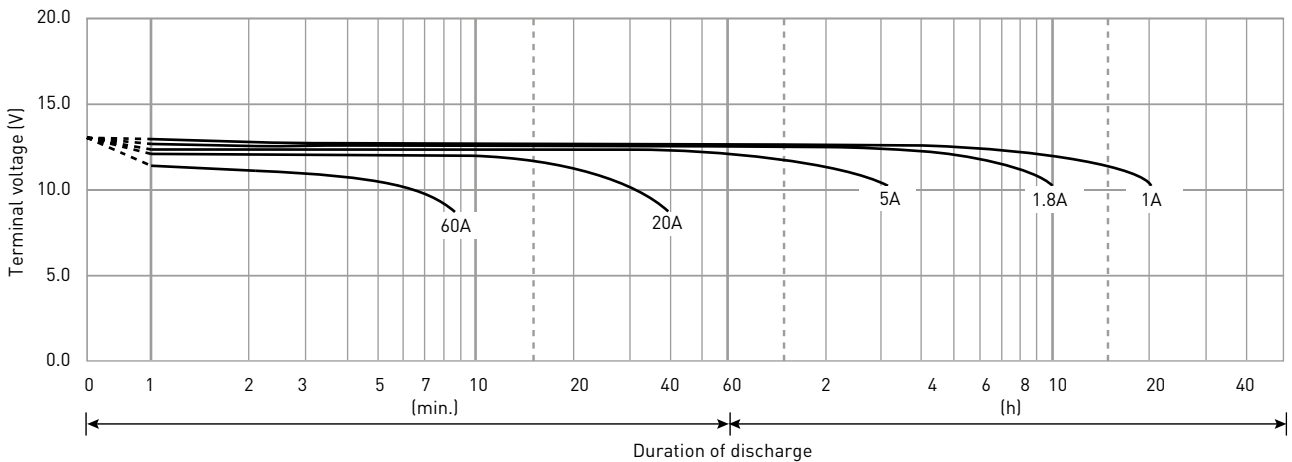
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



DISCHARGE CAPACITY BY TEMPERATURE AND BY DISCHARGE CURRENT



DISCHARGE CHARACTERISTICS



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