

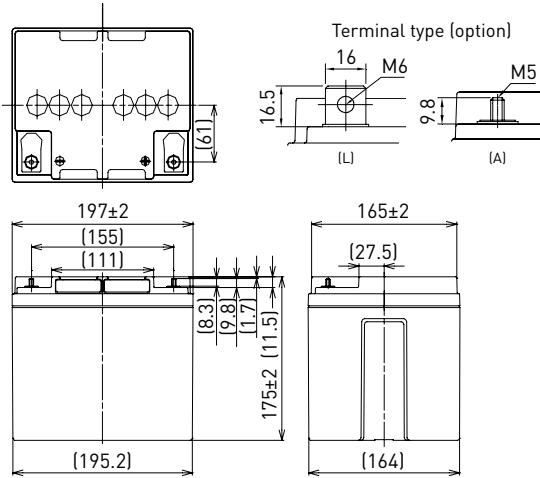
LC-P1242P

DIMENSIONS (MM)



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

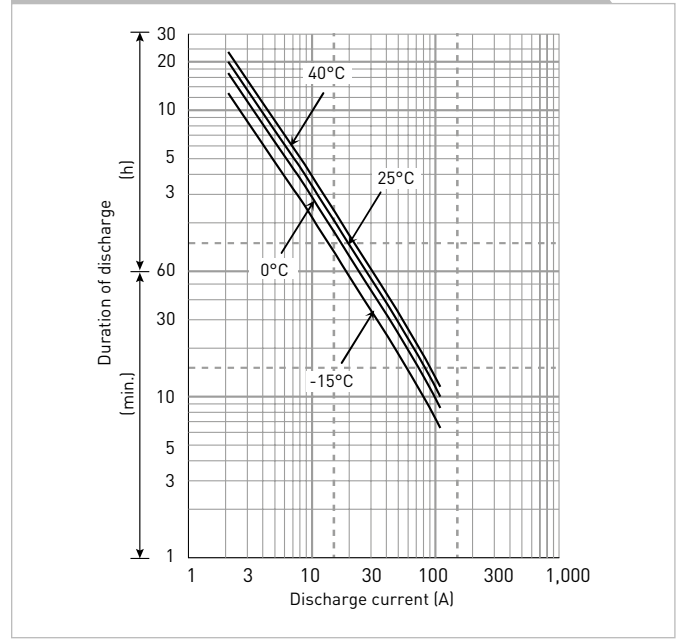
FOR STANDBY POWER SUPPLIES.
EXPECTED TRICKLE DESIGN LIFE: 10 - 12 YEARS AT 20°C
ACCORDING TO EUROBAT.



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

| SPECIFICATIONS | | Name | LC-P1242P/AP |
|---|----------------|--------------------------------|--------------|
| Nominal voltage | | 12V | |
| Nominal capacity (20 hour rate) | | 42Ah | |
| Dimensions | Length | 197mm | |
| | Width | 165mm | |
| | Height | 175mm/180mm | |
| Approx. mass | | 13.5kg | |
| Terminal | | M6 bolt/nut & M5 threaded post | |
| Capacity (25°C) | 20 hour rate | 42Ah | |
| | 10 hour rate | 40Ah | |
| | 3 hour rate | 32Ah | |
| | 1 hour rate | 26Ah | |
| Impedance | | Fully charged battery (25°C) | 10mΩ |
| 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% | |

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



| 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 | 1,483 | 1,254 | 966 | 835 | 625 | 410 | 312 | 241 | 187 | 132 | 110 | 89.9 | 79.1 | 48.0 | 25.2 | |
| 9.9V | 1,405 | 1,232 | 955 | 824 | 607 | 407 | 310 | 234 | 186 | 130 | 109 | 89.4 | 78.5 | 48.0 | 25.2 | |
| 10.2V | 1,327 | 1,210 | 943 | 812 | 596 | 406 | 307 | 217 | 184 | 127 | 108 | 88.9 | 77.9 | 48.0 | 25.2 | |
| 10.5V | 1,249 | 1,176 | 920 | 800 | 585 | 405 | 306 | 211 | 179 | 126 | 107 | 88.5 | 76.7 | 48.0 | 25.2 | |
| 10.8V | 1,215 | 1,086 | 886 | 777 | 573 | 390 | 295 | 201 | 173 | 121 | 105 | 87.5 | 75.5 | 48.0 | 25.2 | |

| 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 | 133 | 112 | 84.0 | 72.0 | 53.4 | 34.9 | 26.5 | 20.4 | 15.8 | 11.1 | 9.20 | 7.50 | 6.60 | 4.00 | 2.10 | |
| 9.9V | 126 | 110 | 83.0 | 71.0 | 51.9 | 34.7 | 26.3 | 19.8 | 15.7 | 10.9 | 9.10 | 7.46 | 6.50 | 4.00 | 2.10 | |
| 10.2V | 119 | 108 | 82.0 | 70.0 | 50.9 | 34.6 | 26.1 | 18.4 | 15.5 | 10.7 | 9.00 | 7.42 | 6.50 | 4.00 | 2.10 | |
| 10.5V | 112 | 105 | 80.0 | 69.0 | 50.0 | 34.5 | 26.0 | 17.9 | 15.1 | 10.6 | 8.90 | 7.38 | 6.40 | 4.00 | 2.10 | |
| 10.8V | 109 | 97.0 | 77.0 | 67.0 | 49.0 | 33.2 | 25.0 | 17.0 | 14.6 | 10.2 | 8.80 | 7.30 | 6.30 | 4.00 | 2.10 | |

All mentioned values are average values

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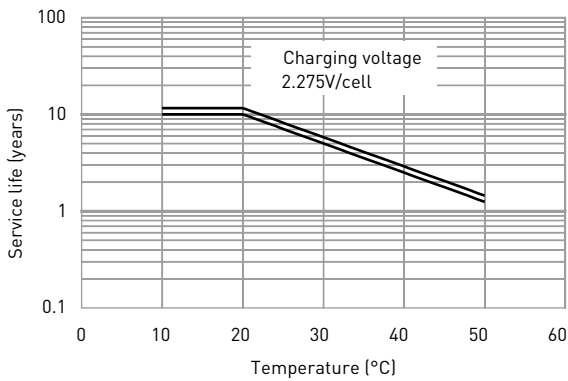
CHARGING METHOD (25°C)

Trickle use Control voltage: 13.6V - 13.8V
Initial current: 6.30A or smaller

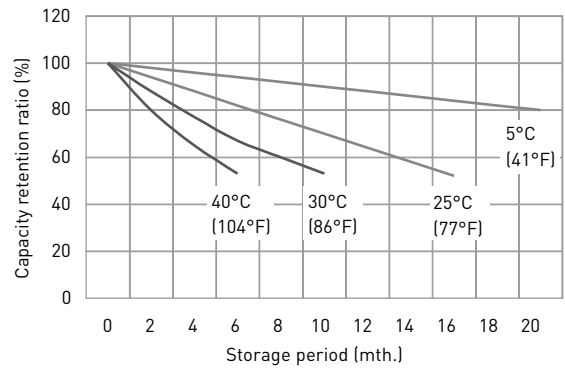
CUT-OFF VOLTAGE

| | | | | | |
|--------------------------|---------------|---------------|---------------|---------------|--------------|
| Discharge current | 2.10A - 8.40A | 8.40A - 21.0A | 21.0A - 42.0A | 42.0A - 84.0A | 84.0A - 126A |
| Cut-off voltage | 10.5V | 10.2V | 9.9V | 9.3V | 8.7V |

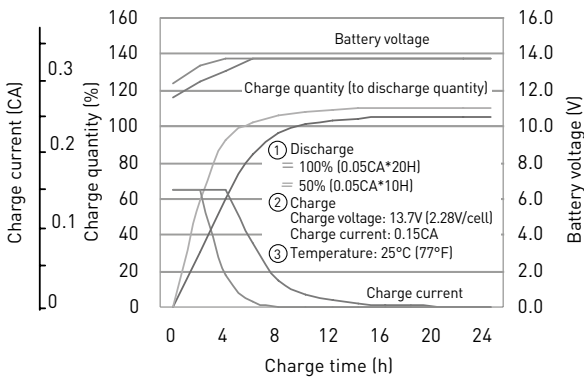
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



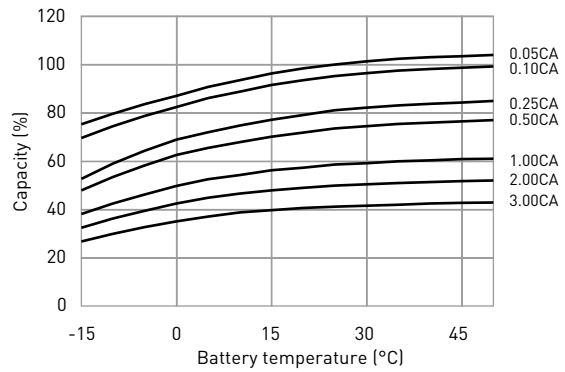
RESIDUAL CAPACITY TEST RESULT



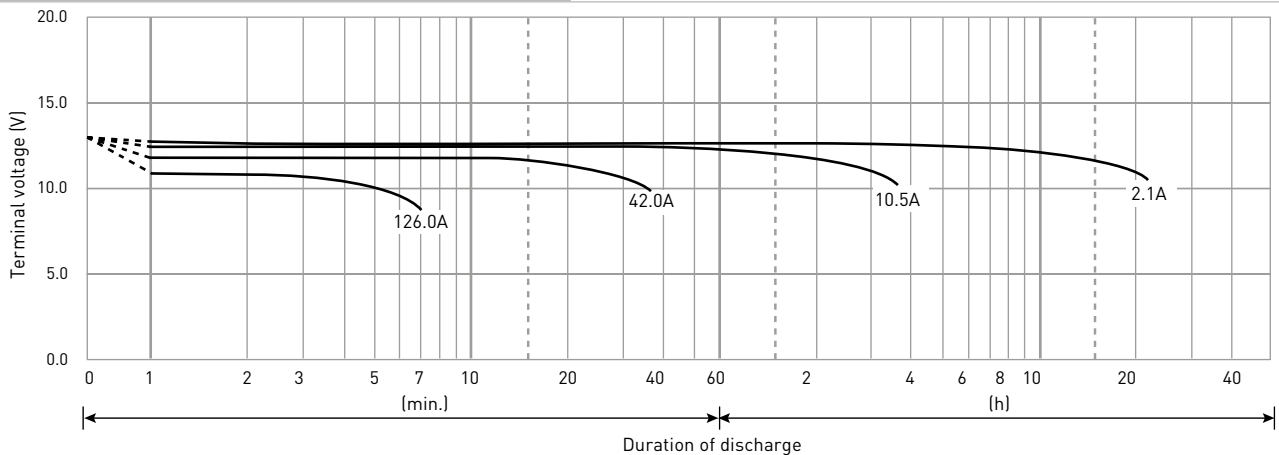
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



DISCHARGE CAPACITY BY TEMPERATURE AND BY DISCHARGE CURRENT



DISCHARGE CHARACTERISTICS



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