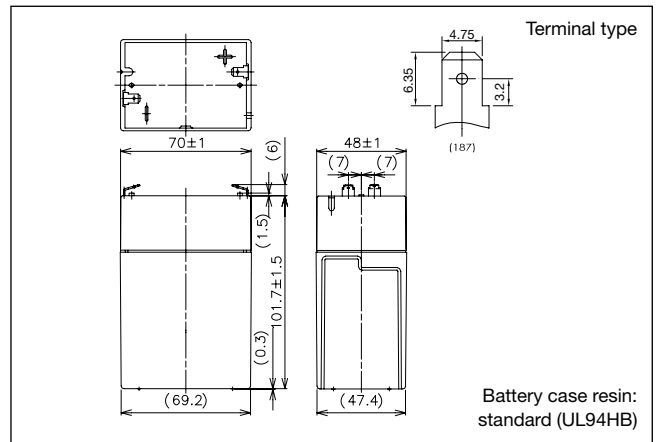


LC-R064R5P

For main and standby power supplies.
Expected trickle design life: 6 – 9 years at 20 °C according to Eurobat.



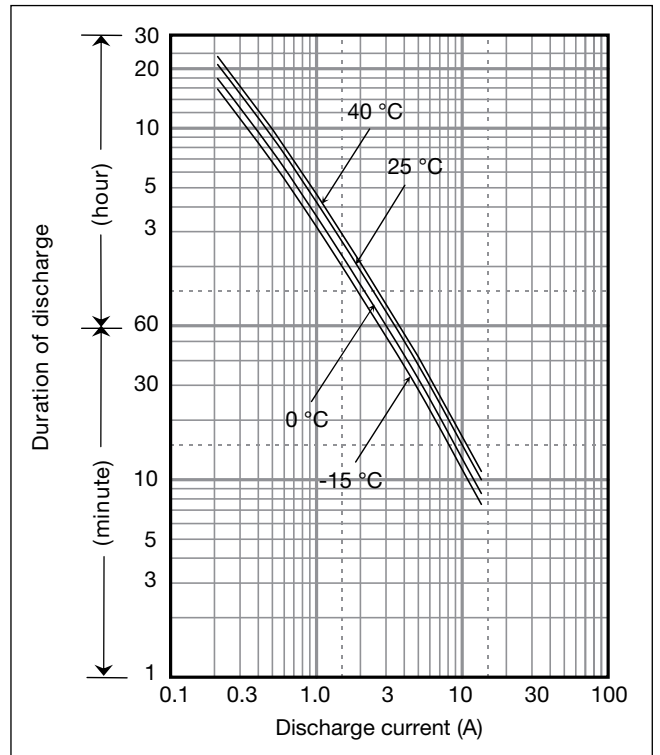
Dimensions (mm)



Specifications

| | | |
|---------------------------------|--------------|--------|
| Nominal voltage | 6 V | |
| Nominal capacity (20 hour rate) | 4.5 Ah | |
| Dimensions | Length | 70 mm |
| | Width | 48 mm |
| | Height | 102 mm |
| | Total Height | 108 mm |
| Approx. mass | 0.72 kg | |
| Terminal | Faston 187 | |

Duration of discharge vs Discharge current



Characteristics

| | | |
|---|-------------------------------|--------|
| Capacity (25 °C) | 20 hour rate | 4.5 Ah |
| | 10 hour rate | 4.0 Ah |
| | 5 hour rate | 3.6 Ah |
| | 1 hour rate | 2.8 Ah |
| Internal resistance | Fully charged battery (25 °C) | 20 mΩ |
| 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 months | 91 % |
| | After 6 months | 82 % |
| | After 12 months | 64 % |

Watt Table

(Wattage/Battery)

| Cut-off V | 3min | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h | 24h |
|-----------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 4.8V | 135 | 107 | 69.7 | 53.2 | 44.6 | 33.3 | 23.5 | 18.8 | 12.9 | 9.99 | 7.44 | 5.71 | 4.72 | 3.79 | 2.51 | 1.36 | 1.136 |
| 4.95V | 125 | 100 | 68.3 | 52.8 | 43.9 | 32.9 | 23.3 | 18.8 | 12.7 | 9.92 | 7.40 | 5.68 | 4.68 | 3.78 | 2.50 | 1.36 | 1.133 |
| 5.1V | 116 | 94 | 66.5 | 51.8 | 43.1 | 32.5 | 23.1 | 18.4 | 12.4 | 9.66 | 7.33 | 5.64 | 4.64 | 3.75 | 2.48 | 1.35 | 1.129 |
| 5.25V | 103 | 84 | 61.6 | 48.2 | 41.0 | 31.8 | 22.7 | 18.0 | 12.1 | 9.32 | 7.21 | 5.60 | 4.60 | 3.70 | 2.46 | 1.35 | 1.125 |
| 5.4V | 87 | 74 | 55.0 | 44.9 | 39.9 | 30.7 | 22.4 | 17.7 | 11.8 | 8.88 | 7.07 | 5.53 | 4.49 | 3.64 | 2.44 | 1.34 | 1.118 |

Ampere Table

(Ampere/Battery)

| Cut-off V | 3min | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h | 24h |
|-----------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 4.8V | 24.3 | 19.13 | 12.44 | 9.25 | 7.69 | 5.69 | 4.00 | 3.19 | 2.19 | 1.69 | 1.25 | 0.956 | 0.788 | 0.633 | 0.419 | 0.227 | 0.189 |
| 4.95V | 22.6 | 17.94 | 12.19 | 9.19 | 7.56 | 5.63 | 3.98 | 3.19 | 2.14 | 1.68 | 1.24 | 0.950 | 0.781 | 0.630 | 0.417 | 0.226 | 0.189 |
| 5.1V | 20.8 | 16.81 | 11.88 | 9.00 | 7.44 | 5.56 | 3.94 | 3.13 | 2.10 | 1.63 | 1.23 | 0.944 | 0.775 | 0.625 | 0.413 | 0.226 | 0.188 |
| 5.25V | 18.5 | 15.06 | 11.00 | 8.38 | 7.06 | 5.44 | 3.88 | 3.06 | 2.06 | 1.58 | 1.21 | 0.938 | 0.769 | 0.618 | 0.411 | 0.225 | 0.188 |
| 5.4V | 15.6 | 13.31 | 9.81 | 7.81 | 6.88 | 5.25 | 3.81 | 3.00 | 2.00 | 1.50 | 1.19 | 0.925 | 0.750 | 0.608 | 0.406 | 0.224 | 0.186 |

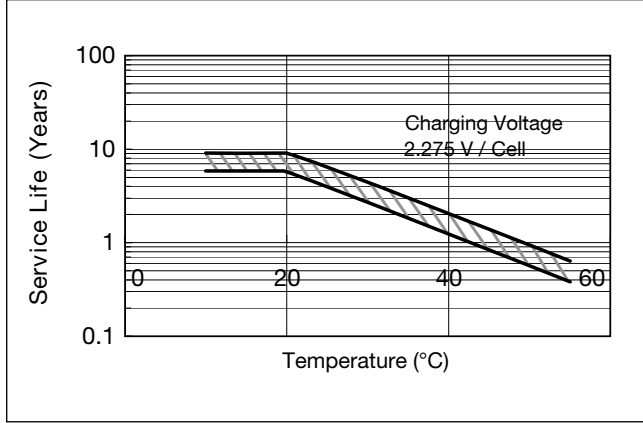
Charging Method

Trickle use Control voltage: 6.8 - 6.9 V; Initial current: 0.675 A or smaller

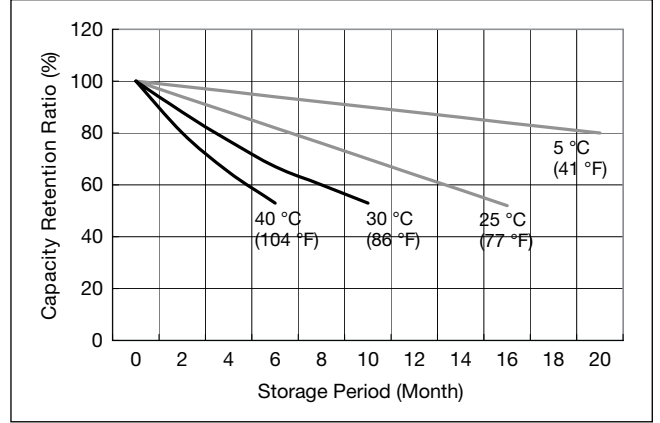
Cut off voltage

| | | | | | |
|---------------------|-----------------|----------------|----------------|-------------|--------------|
| Discharge current | 0.225 A - 0.9 A | 0.9 A - 2.25 A | 2.25 A - 4.5 A | 4.5 A - 9 A | 9 A - 13.5 A |
| Cut off voltage (V) | 5.25 | 5.1 | 4.95 | 4.65 | 4.35 |

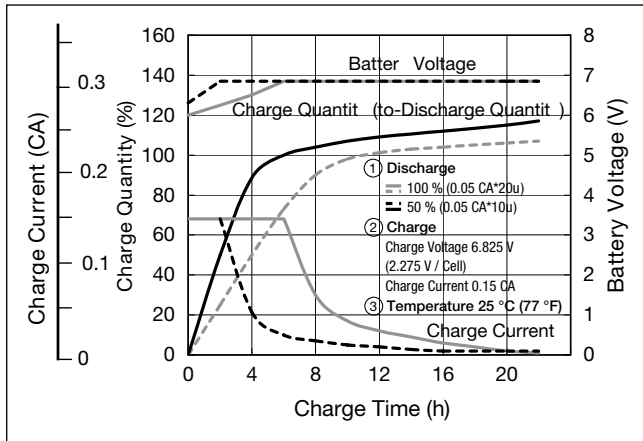
Influence of Temperature on Trickle life



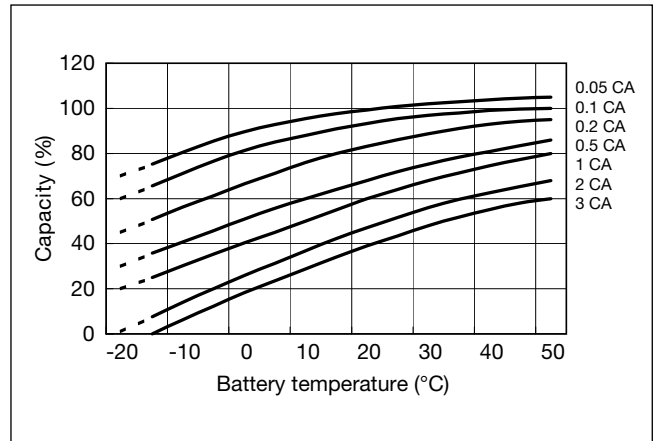
Residual capacity vs storage period



Constant-voltage and constant-current charge characteristics for Trickle use



Discharge capacity by temperature and by discharge current



Discharge characteristics

