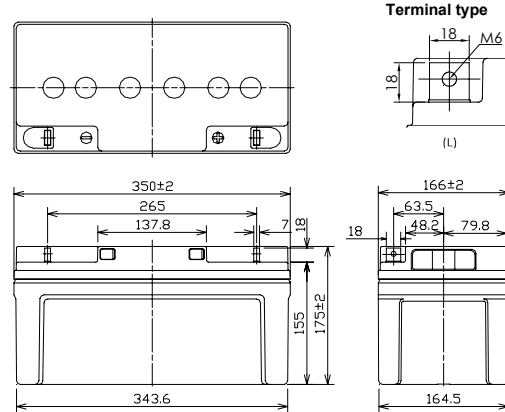


For standby power supplies
 Expected trickle life: 6 years at 25°C
 12 years at 20°C



■ Dimensions(mm)



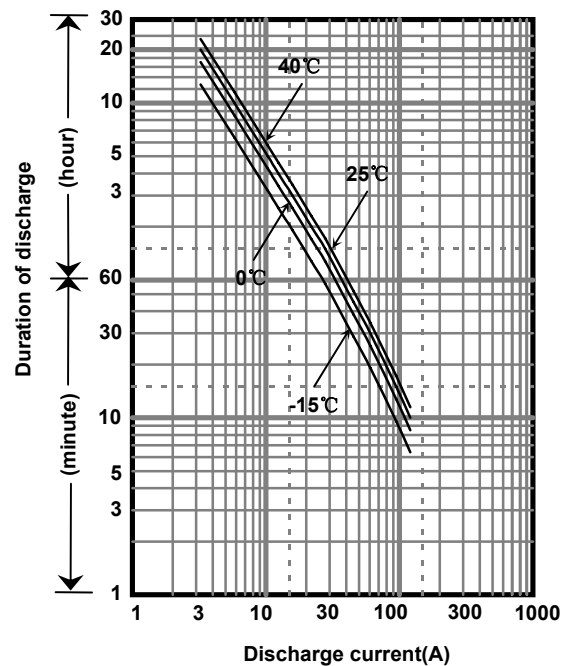
Battery case resin: Flame-retardant (UL94V-0)

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

■ Specifications

| | | |
|-----------------|--------------|------------------|
| Nominal Voltage | | 12V |
| Rated Capacity | | 200W/cell@15MR |
| Dimensions | Length | 350 mm |
| | Width | 166 mm |
| | Height | 175 mm |
| | Total height | 175 mm |
| Approx. Mass | | 19.0 kg |
| Terminal | | M6 threaded post |

■ Duration of discharge vs. discharge current



■ Characteristics

| | | |
|---|-----------------------|------|
| Capacity (25 °C) | 20 hour rate | 65Ah |
| | 10 hour rate | 59Ah |
| | 3 hour rate | 48Ah |
| | 1 hour rate | 40Ah |
| Internal Resistance (25 °C) | Fully charged battery | 7 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(25°C)

Wattage values in the table are average instead of guaranteed value, please consider appropriate redundancy by application.

(Wattage/Battery)

| Cut-off V | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h |
|-----------|------|-------|-------|-------|-------|-------|-----|------|-----|-----|-----|-----|-----|------|------|
| 9.6V | 1884 | 1439 | 1200 | 956 | 742 | 533 | 501 | 321 | 290 | 201 | 158 | 131 | 115 | 70.8 | 39.0 |
| 9.9V | 1851 | 1422 | 1116 | 951 | 734 | 520 | 494 | 313 | 289 | 198 | 157 | 127 | 114 | 70.4 | 39.0 |
| 10.2V | 1735 | 1386 | 1093 | 935 | 725 | 515 | 484 | 307 | 281 | 196 | 156 | 126 | 113 | 70.1 | 38.9 |
| 10.5V | 1554 | 1284 | 1017 | 888 | 709 | 507 | 474 | 300 | 272 | 193 | 154 | 125 | 112 | 69.7 | 38.8 |
| 10.8V | 1374 | 1145 | 949 | 865 | 685 | 499 | 465 | 292 | 259 | 189 | 152 | 122 | 111 | 69.0 | 38.6 |

■ Ampere Table(25°C)

Ampere values in the table are average instead of guaranteed value, please consider appropriate redundancy by application.

(Ampere/Battery)

| Cut-off V | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h |
|-----------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 9.6V | 169 | 129 | 98.0 | 82.4 | 63.4 | 45.4 | 42.2 | 27.2 | 24.5 | 16.9 | 13.2 | 11.1 | 9.60 | 6.05 | 3.27 |
| 9.9V | 166 | 127 | 97.0 | 82.0 | 62.7 | 44.3 | 41.6 | 26.5 | 24.4 | 16.6 | 13.1 | 10.8 | 9.56 | 6.02 | 3.27 |
| 10.2V | 156 | 124 | 95.0 | 80.6 | 62.0 | 43.9 | 40.8 | 26.0 | 23.8 | 16.4 | 13.0 | 10.7 | 9.52 | 5.99 | 3.26 |
| 10.5V | 139 | 115 | 88.4 | 76.6 | 60.6 | 43.2 | 40.0 | 25.4 | 22.9 | 16.2 | 12.9 | 10.6 | 9.41 | 5.96 | 3.25 |
| 10.8V | 123 | 102 | 82.5 | 74.5 | 58.5 | 42.5 | 39.2 | 24.7 | 21.9 | 15.8 | 12.8 | 10.3 | 9.26 | 5.90 | 3.23 |

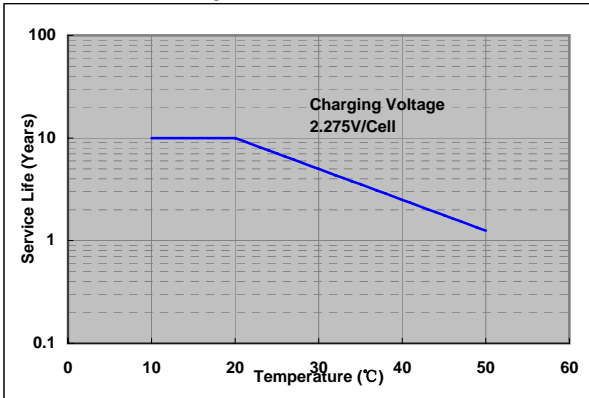
Charging Method (25°C)

| | |
|-------------|--|
| Trickle use | Control voltage:13.6-13.8V Initial current:9.75A or smaller |
|-------------|--|

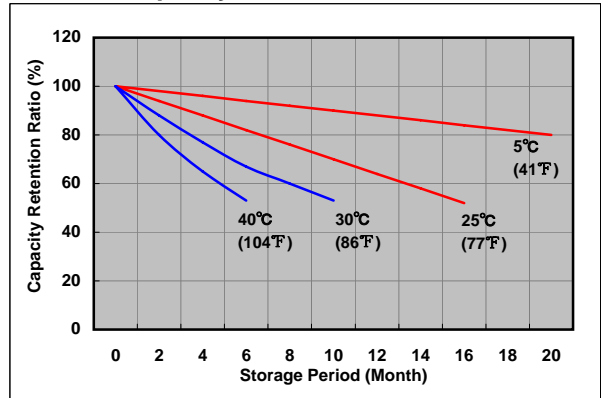
Cut off voltage

| | | | | | |
|--------------------|-------------|-------------|-------------|------------|-----------|
| Discharge current | 3.25A-13.0A | 13.0A-32.5A | 32.5A-65.0A | 65.0A-130A | 130A-195A |
| Cut off voltage(V) | 10.5 | 10.2 | 9.9 | 9.3 | 8.7 |

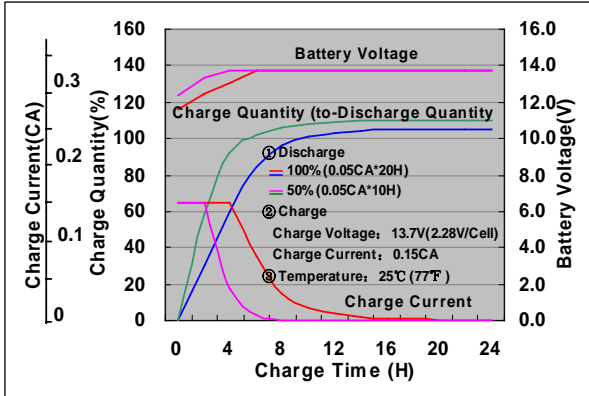
Influence of Temperature on Trickle life



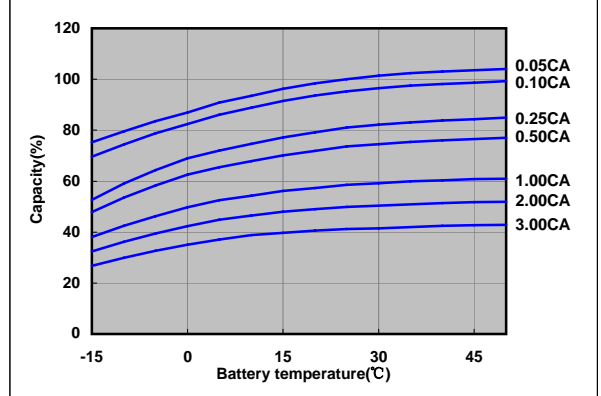
Residual capacity test result



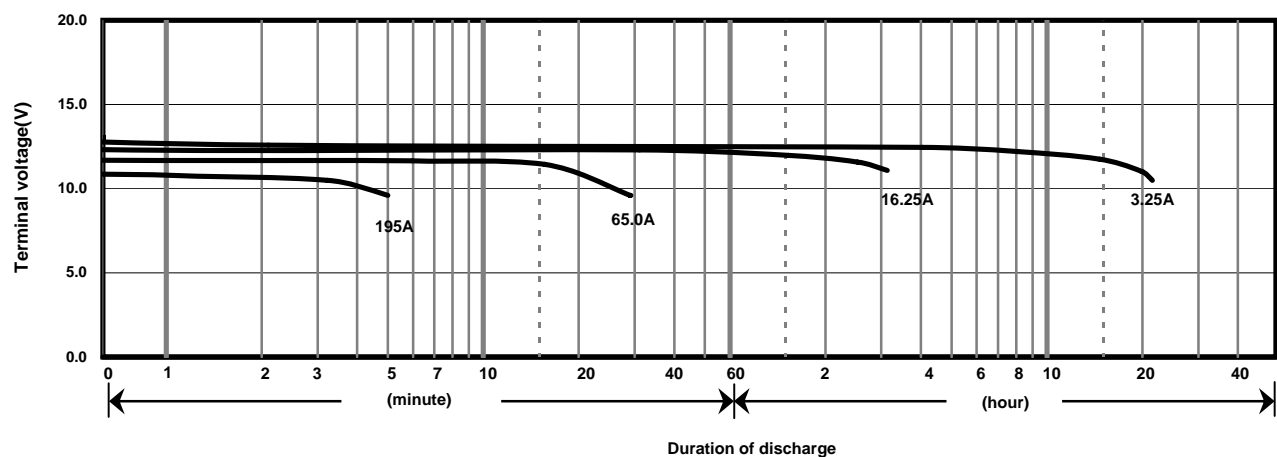
Constant-voltage constant-current charge characteristics for Trickle use



Discharge capacity by temperature and by discharge current



Discharge characteristics(25°C)



Caution

Due to the potential energy stored in the batteries, Please read 《Precautions for handling the Rechargeable Valve Regulated Lead Acid Batteries》 before using batteries. If improper handling or use of the batteries without understanding 《Precautions for handling the Rechargeable Valve Regulated Lead Acid Batteries》 may result in bodily injury caused by electrolyte leakage, heat generation, or explosion.

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