

UP1.0-6



| Specification | | |
|-------------------------------------|---|-------------------------------|
| Nominal Voltage | 6V | |
| Nominal Capacity (20HR) | 1.0AH | |
| Dimension | Length | 51±1mm (2.01 inches) |
| | Width | 42±1mm (1.65 inches) |
| | Container Height | 51±1mm (2.01 inches) |
| | Total Height (with Terminal) | 57±1mm (2.24 inches) |
| Approx Weight | Approx 0.27 kg (0.60lbs) | |
| Terminal | T1 | |
| Container Material | ABS | |
| Rated Capacity | 1.00 AH/0.500A | (20hr, 1.80V/cell, 25°C/77°F) |
| | 0.93 AH/0.093A | (10hr, 1.80V/cell, 25°C/77°F) |
| | 0.85 AH/0.17A | (5hr, 1.75V/cell, 25°C/77°F) |
| | 0.765 AH/0.255A | (3hr, 1.75V/cell, 25°C/77°F) |
| | 0.628 AH/0.628A | (1hr, 1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 15A (5s) | |
| Internal Resistance | Approx 75mΩ | |
| Operating Temperature Range | Discharge: -15~50°C (5~122°F) | |
| | Change : 0~40°C (32~104°F) | |
| | Storage : -15~40°C (5~104°F) | |
| Nominal Operating Temperature Range | 25±3°C (77±5°F) | |
| Cycle Use | Initial Charging Current less than 0.3A.Voltage. 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C | |
| Standby Use | No limit on Initial Charging Current Voltage. 6.75V~6.9V at 25°C(77°F)Temp. Coefficient -10mV/°C | |
| Capacity affected by Temperature | 40°C (104°F) 103% | |
| | 25°C (77°F) 100% | |
| | 0°C (32°F) 86% | |
| Self Discharge | Batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. | |

Constant Current Discharge (Amperes) at 25°C (77°F)

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1.85V/cell | 1.90 | 1.46 | 1.21 | 1.05 | 0.81 | 0.597 | 0.503 | 0.297 | 0.233 | 0.189 | 0.154 | 0.134 | 0.108 | 0.090 | 0.0495 |
| 1.80V/cell | 2.56 | 1.87 | 1.46 | 1.24 | 0.96 | 0.694 | 0.563 | 0.325 | 0.250 | 0.202 | 0.166 | 0.144 | 0.115 | 0.093 | 0.0500 |
| 1.75V/cell | 2.88 | 2.05 | 1.60 | 1.33 | 0.99 | 0.720 | 0.589 | 0.337 | 0.255 | 0.207 | 0.170 | 0.148 | 0.117 | 0.096 | 0.0505 |
| 1.70V/cell | 3.17 | 2.24 | 1.71 | 1.40 | 1.03 | 0.749 | 0.608 | 0.345 | 0.262 | 0.212 | 0.174 | 0.151 | 0.118 | 0.097 | 0.0514 |
| 1.65V/cell | 3.50 | 2.42 | 1.81 | 1.49 | 1.09 | 0.768 | 0.622 | 0.350 | 0.273 | 0.219 | 0.179 | 0.154 | 0.120 | 0.099 | 0.0521 |
| 1.60V/cell | 3.86 | 2.62 | 1.94 | 1.58 | 1.15 | 0.800 | 0.628 | 0.365 | 0.282 | 0.226 | 0.185 | 0.157 | 0.121 | 0.101 | 0.0524 |

Constant Power Discharge (Watts) at 25°C (77°F)

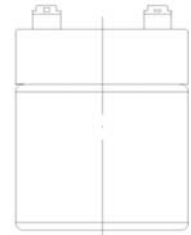
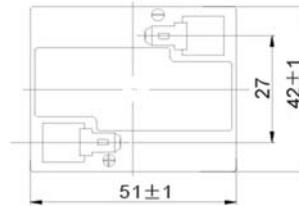
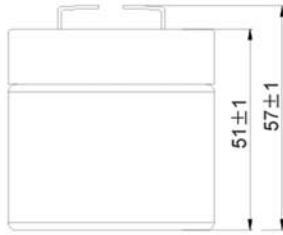
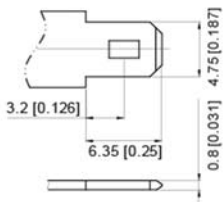
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1.85V/cell | 3.48 | 2.70 | 2.26 | 1.97 | 1.54 | 1.15 | 0.97 | 0.578 | 0.454 | 0.370 | 0.303 | 0.263 | 0.213 | 0.179 | 0.0981 |
| 1.80V/cell | 4.62 | 3.41 | 2.69 | 2.30 | 1.79 | 1.32 | 1.08 | 0.626 | 0.485 | 0.393 | 0.323 | 0.281 | 0.225 | 0.184 | 0.0989 |
| 1.75V/cell | 5.10 | 3.69 | 2.91 | 2.45 | 1.85 | 1.36 | 1.13 | 0.647 | 0.492 | 0.400 | 0.331 | 0.288 | 0.229 | 0.188 | 0.0998 |
| 1.70V/cell | 5.46 | 3.93 | 3.06 | 2.56 | 1.91 | 1.41 | 1.16 | 0.662 | 0.505 | 0.410 | 0.338 | 0.294 | 0.232 | 0.192 | 0.1015 |
| 1.65V/cell | 5.94 | 4.20 | 3.23 | 2.69 | 2.00 | 1.43 | 1.18 | 0.667 | 0.524 | 0.423 | 0.347 | 0.299 | 0.235 | 0.196 | 0.1027 |
| 1.60V/cell | 6.40 | 4.46 | 3.40 | 2.84 | 2.10 | 1.48 | 1.18 | 0.693 | 0.538 | 0.435 | 0.357 | 0.304 | 0.237 | 0.198 | 0.1032 |



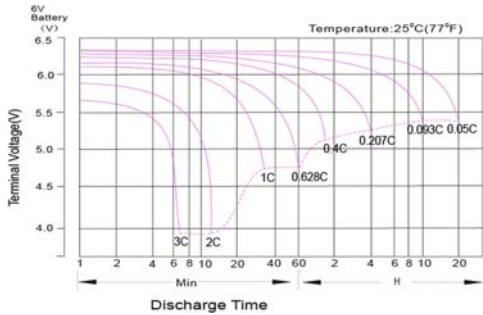
UP1.0-6

Dimensions

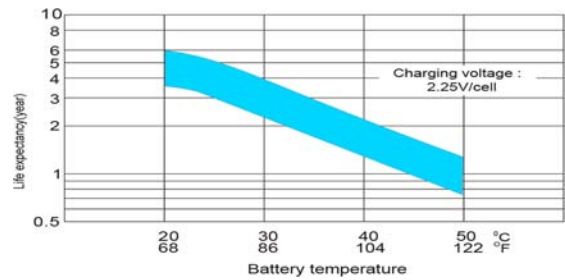
T1 Terminal
Unit: mm [inches]



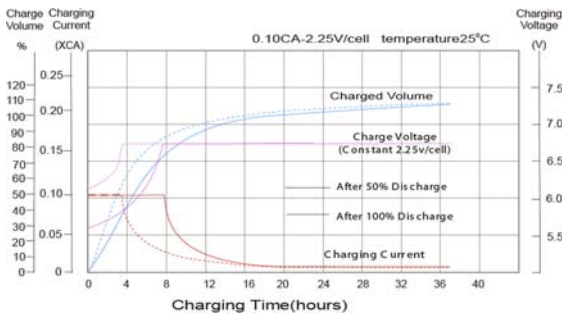
Discharge Characteristics



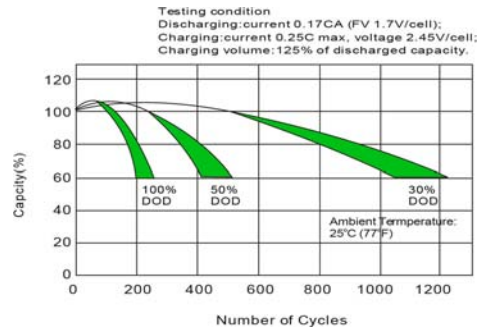
Effect of Temperature on Long Term Float Life



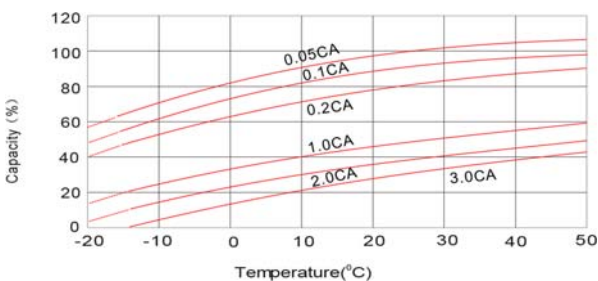
Float Charging Characteristics



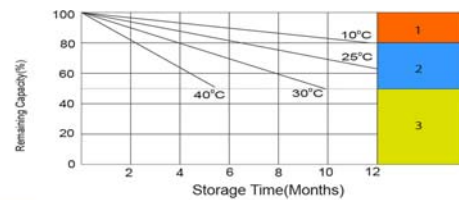
Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



- 1** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required).
- 2** Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.45V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 6-10 hours at limited current 0.05CA.
- 3** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

