

UP-G120-12



| Specification | | |
|-------------------------------------|---|-------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity (20HR) | 120.0AH | |
| Dimension | Length | 415±1mm (16.34 inches) |
| | Width | 182±1mm (7.17 inches) |
| | Height | 244±1mm (9.61 inches) |
| | Total Height | 248±1mm (9.76 inches) |
| | Approx Weight | Approx 34.0kg (74,96lbs) |
| Terminal | T11 | |
| Container Material | ABS | |
| Rated Capacity | 120.0AH/6A | (20hr, 1.75V/cell, 25°C/77°F) |
| | 111.3AH/11.13A | (10hr, 1.80V/cell, 25°C/77°F) |
| | 98.0AH/19.6A | (5hr, 1.75V/cell, 25°C/77°F) |
| | 71.0AH/71.0A | (1hr, 1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 1100A (5s) | |
| Internal Resistance | Approx ≤6.0mΩ | |
| Operating Temperature Range | Discharge: -20~55°C (-4~131°F) | |
| | Change : 0~40°C (32~104°F) | |
| | Storage : -20~50°C (-4~122°F) | |
| Nominal Operating Temperature Range | 25±3°C (77±5°F) | |
| Cycle Use | Initial Charging Current Less than 24A Voltage 14.4-14.9V | |
| Standby Use | Initial Charging Current Less than 24A Voltage 13.6-13.8V | |
| Capacity affected by Temperature | 40°C (104°F) | 108% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 90% |
| | -15°C (5°F) | 70% |
| Self Discharge | Batteries may be stored for up to 9 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 | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|------|------|------|------|------|------|-------|------|
| 1.80V/cell | 156.6 | 100.3 | 76.5 | 61.3 | 36.8 | 27.4 | 19.1 | 16.7 | 13.4 | 11.13 | 5.80 |
| 1.75V/cell | 167.0 | 104.1 | 79.4 | 63.6 | 38.3 | 28.3 | 19.6 | 17.0 | 13.6 | 11.24 | 6.00 |
| 1.70V/cell | 178.2 | 108.9 | 83.0 | 66.2 | 39.3 | 28.9 | 19.9 | 17.4 | 13.8 | 11.35 | 6.06 |
| 1.67V/cell | 189.8 | 112.1 | 86.2 | 68.9 | 40.4 | 29.7 | 20.4 | 17.7 | 14.0 | 11.47 | 6.12 |
| 1.60V/cell | 200.9 | 118.3 | 89.6 | 71.0 | 41.7 | 30.7 | 20.7 | 18.0 | 14.1 | 11.69 | 6.18 |

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

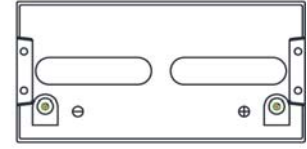
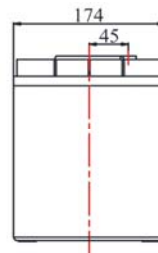
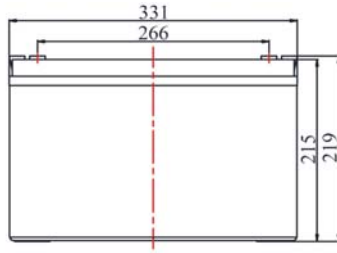
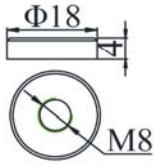
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.80V/cell | 292.1 | 194.7 | 147.7 | 119.3 | 71.0 | 53.1 | 37.4 | 32.7 | 26.4 | 21.8 | 11.4 |
| 1.75V/cell | 321.4 | 200.6 | 152.8 | 123.3 | 73.5 | 54.7 | 38.2 | 33.3 | 26.7 | 22.0 | 11.7 |
| 1.70V/cell | 342.5 | 206.4 | 159.2 | 128.0 | 75.3 | 55.8 | 38.7 | 33.8 | 27.1 | 22.4 | 11.8 |
| 1.67V/cell | 367.6 | 212.3 | 164.4 | 132.6 | 77.0 | 57.1 | 39.3 | 34.3 | 27.4 | 22.6 | 11.9 |
| 1.60V/cell | 384.2 | 218.1 | 170.2 | 136.3 | 79.1 | 58.7 | 40.0 | 34.8 | 27.6 | 22.8 | 12.0 |



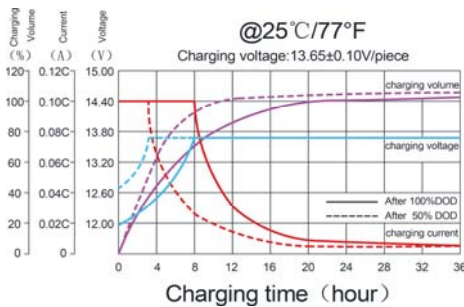
UP-G120-12

Dimensions

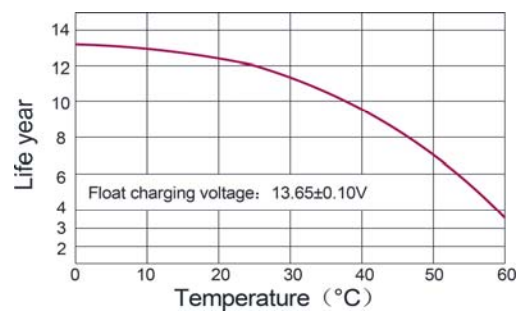
■ T11 Terminal
Unit: mm



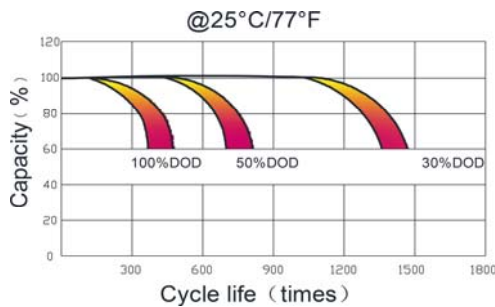
Charging Characteristics



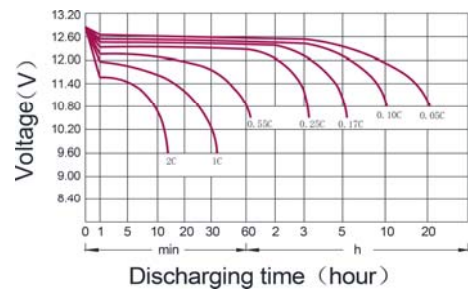
Temperature Effect on Design Service Life



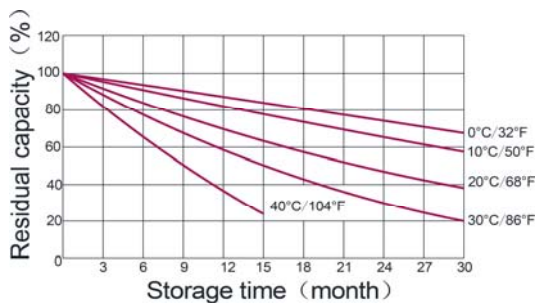
Cycle Life vs. Depth of Discharge



Discharge Characteristics



Temperature Effect on Battery Self-discharge



Temperature Effect on Capacity

