

ELA12V34AH



Specification

| | | |
|---|---|------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity(20HR) | 34.0 AH | |
| Dimensions | Length | 195±2mm (7.68 inches) |
| | Width | 130±1mm (5.12 inches) |
| | Container Height | 164±2mm (6.46 inches) |
| | Total Height (with Terminal) | 178±2mm (7.01 inches) |
| Approx Weight | Approx 10.5 kg (23.15lbs) | |
| Terminal | T5/T6 | |
| Container Material | ABS | |
| Rated Capacity | 34.0 AH/0.50A | 20hr ,1.80V/cell, 25°C/77°F) |
| | 30.7 AH/0.93A | (10hr,1.80V/cell, 25°C/77°F) |
| | 28.1 AH/1.70A | (5hr,1.75V/cell, 25°C/77°F) |
| | 25.3 AH/2.55A | (3hr,1.75V/cell, 25°C/77°F) |
| | 20.7 AH/6.28A | (1hr,1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 495A (5s) | |
| Internal Resistance | Approx 125mΩ | |
| Operating Temp.Range | Discharge : 1~50°C (5~122 F) | |
| | Charge : 0~40°C (32~104°F) | |
| | Storage : -15~40°C (5~104°F) | |
| Nominal Operating Temp. Range | 25.±3°C (77±5°F) | |
| Cycle Use | Initial Charging Current less than 9.9A.Voltage | |
| | 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| Standby Use | No limit on Initial Charging Current Voltage | |
| | 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C | |
| Capacity affected by Temperature | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |

Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system



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 | 62.8 | 48.3 | 40.0 | 34.6 | 26.7 | 19.69 | 16.6 | 9.81 | 7.68 | 6.24 | 5.09 | 4.42 | 3.56 | 2.98 | 1.63 |
| 1.80V/cell | 84.4 | 61.7 | 48.3 | 40.9 | 31.5 | 22.9 | 18.6 | 10.7 | 8.26 | 6.67 | 5.46 | 4.74 | 3.78 | 3.07 | 1.65 |
| 1.80V/cell | 95.1 | 67.8 | 52.8 | 44.0 | 32.7 | 23.8 | 19.4 | 11.1 | 8.42 | 6.81 | 5.61 | 4.87 | 3.84 | 3.15 | 1.67 |
| 1.70V/cell | 104.7 | 73.9 | 56.3 | 46.2 | 34.1 | 24.7 | 20.1 | 11.4 | 8.65 | 7.00 | 5.75 | 4.97 | 3.90 | 3.21 | 1.70 |
| 1.55V/cell | 115.5 | 79.7 | 59.9 | 49.1 | 35.9 | 25.3 | 20.5 | 11.6 | 9.02 | 7.24 | 5.91 | 5.08 | 3.96 | 3.28 | 1.72 |
| 1.6V/cell | 127.4 | 86.5 | 64.1 | 52.3 | 38.0 | 26.4 | 20.7 | 12.0 | 9.29 | 7.46 | 6.11 | 5.19 | 4.00 | 3.32 | 1.73 |

Constant Power Discharge (Watts/cell) 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 | 114.9 | 89.1 | 74.6 | 65.2 | 50.9 | 37.8 | 32.0 | 19.1 | 15.0 | 12.2 | 10.0 | 8.69 | 7.03 | 5.89 | 3.24 |
| 1.80V/cell | 152.6 | 112.6 | 88.9 | 75.9 | 59.2 | 43.7 | 35.7 | 20.7 | 16.0 | 13.0 | 10.7 | 9.28 | 7.44 | 6.06 | 3.26 |
| 1.80V/cell | 168.4 | 121.7 | 95.9 | 80.9 | 60.9 | 44.9 | 37.1 | 21.3 | 16.2 | 13.2 | 10.9 | 9.50 | 7.55 | 6.22 | 3.29 |
| 1.70V/cell | 180.3 | 129.6 | 101.0 | 84.3 | 63.1 | 46.5 | 38.2 | 21.8 | 16.7 | 13.5 | 11.2 | 9.69 | 7.65 | 6.34 | 3.35 |
| 1.55V/cell | 196.0 | 138.6 | 106.6 | 88.9 | 66.0 | 47.2 | 38.8 | 22.0 | 17.3 | 13.9 | 11.4 | 9.87 | 7.75 | 6.46 | 3.39 |
| 1.6V/cell | 211.2 | 147.1 | 112.1 | 93.7 | 69.2 | 49.0 | 39.0 | 22.9 | 17.7 | 14.3 | 11.8 | 10.0 | 7.81 | 6.52 | 3.40 |