



ALPHA HOUSE

intelligent power

AH 12-12(12V12AH)



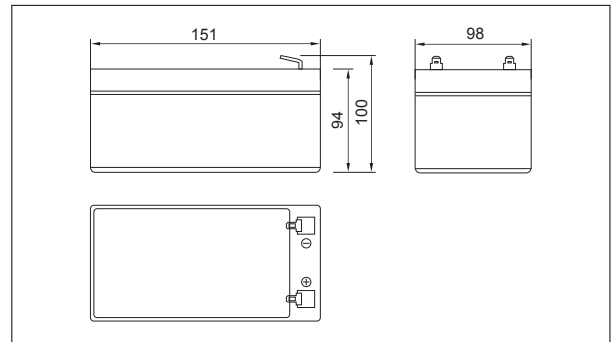
Specifications

| | | |
|-------------------------------|--------------|-----------------------|
| Nominal Voltage | | 12V |
| Rated capacity (20 hour rate) | | 12Ah |
| Dimensions | Total Height | 100 mm (3.94 inches) |
| | Height | 94 mm (3.70 inches) |
| | Length | 151 mm (5.94 inches) |
| | Width | 98 mm (3.86 inches) |
| Weight Approx | | 3.4 Kg (7.5 lbs) |

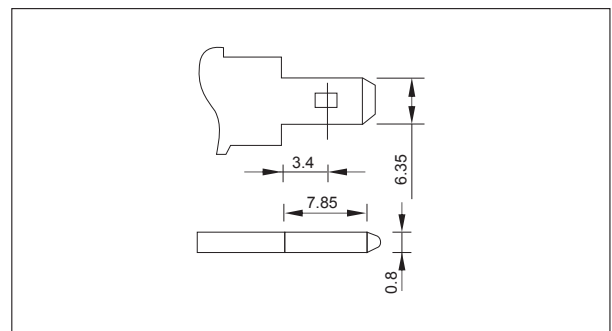
Characteristics

| | | |
|--|---|--|
| Design Life | EUROBAT Commercial Standard 3-5 years | |
| Certification | ISO9001, ISO14001, OHSAS18001, UL, CE, IEC60896-21/22 | |
| Capacity 25°C(77°F) | 20 hour rate (0.60 A) | 12 AH |
| | 10 hour rate (1.10 A) | 11.0 AH |
| | 5 hour rate (2.04 A) | 10.2 AH |
| | 1 hour rate (7.20 A) | 7.20 AH |
| | 1.5 hour discharge to 10.5V | 4.8 A |
| Internal Resistance | Full charged Battery at 25°C(77°F) 16 mΩ | |
| Capacity affected by Temperature (20hour rate) | 40°C(104°F) | 102% |
| | 25°C(77°F) | 100% |
| | 0°C(32°F) | 85% |
| | -15°C(5°F) | 65% |
| Self-Discharge at 25°C(77°F) | Capacity after 3 month storage | 91% |
| | Capacity after 6 month storage | 82% |
| | Capacity after 12 month storage | 64% |
| Terminal | T2 | |
| Charge (constant Voltage) | Cycle | Initial Charging Current less than 4.80A Voltage 14.10-14.40V |
| | Float | Voltage 13.50-13.80V |

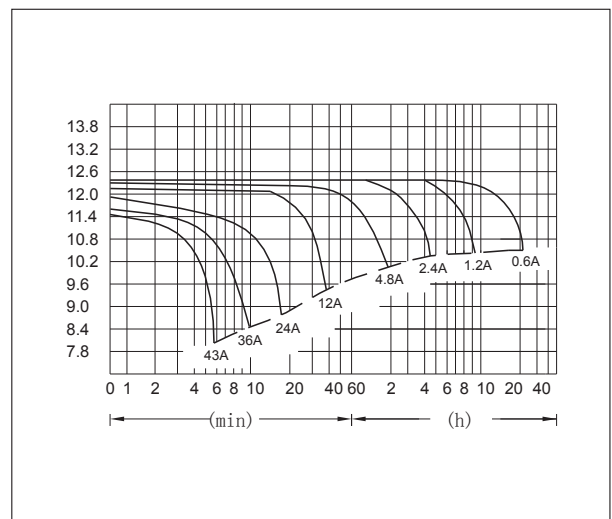
Outer dimensions (mm)



Terminal Type (mm)



Discharge Curves 25°C(77°F)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

| Time | | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|--------|---|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| 9.60V | A | 43.20 | 27.07 | 21.00 | 13.80 | 7.80 | 4.20 | 3.12 | 2.48 | 2.11 | 1.39 | 1.14 | 0.62 |
| | W | 457.92 | 288.33 | 224.70 | 149.04 | 85.02 | 45.78 | 34.32 | 27.28 | 23.16 | 15.43 | 12.65 | 6.94 |
| 10.20V | A | 39.60 | 26.50 | 19.30 | 13.10 | 7.44 | 4.03 | 3.06 | 2.40 | 2.06 | 1.37 | 1.12 | 0.61 |
| | W | 437.58 | 294.15 | 215.19 | 147.38 | 83.70 | 45.54 | 34.58 | 27.24 | 23.44 | 15.53 | 12.66 | 6.87 |
| 10.50V | A | 36.73 | 25.32 | 18.00 | 12.70 | 7.20 | 3.95 | 3.00 | 2.28 | 2.04 | 1.35 | 1.10 | 0.60 |
| | W | 411.32 | 284.85 | 203.40 | 144.78 | 82.08 | 45.23 | 34.35 | 26.22 | 23.46 | 15.53 | 12.70 | 6.90 |
| 10.80V | A | 33.44 | 24.20 | 16.80 | 12.12 | 6.96 | 3.85 | 2.94 | 2.24 | 1.95 | 1.31 | 1.07 | 0.59 |
| | W | 379.54 | 275.88 | 192.36 | 139.99 | 80.39 | 44.47 | 34.10 | 26.10 | 22.72 | 15.32 | 12.52 | 6.82 |
| 11.10V | A | 28.92 | 22.80 | 15.60 | 11.28 | 6.60 | 3.75 | 2.82 | 2.20 | 1.87 | 1.28 | 1.05 | 0.57 |
| | W | 332.58 | 263.34 | 180.96 | 131.98 | 77.22 | 43.88 | 33.14 | 25.96 | 22.01 | 15.10 | 12.39 | 6.73 |