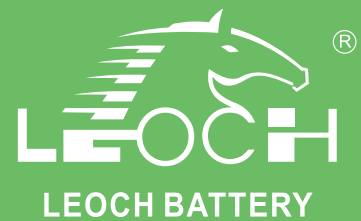




Solar Series-Tubular Gel

12V 60PzV120(12V144Ah)

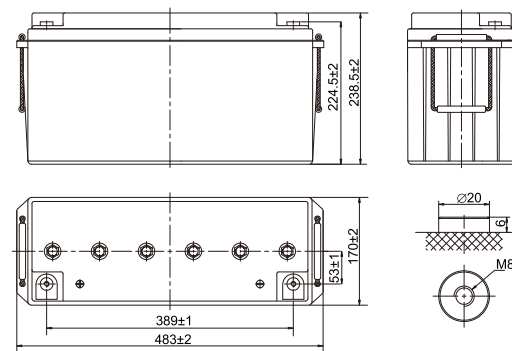


Specifications

| | | |
|-------------------------------|-----------------------|---------------------------------|
| Rated Voltage | 12V | |
| Nominal Capacity | 144.0Ah | (C ₁₀₀ , 1.80V/cell) |
| Dimension | Length | 483mm(19.02in.) |
| | Width | 170mm(6.69in.) |
| | Container Height | 224.5mm(8.84in.) |
| | Total Height | 238.5mm(9.39in.) |
| Approx Weight | 45.7Kg (100.8 lbs) | |
| Terminal | M8 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 157.2 Ah | (120hr, 1.31A, 1.80V/cell) |
| | 144.0 Ah | (100hr, 1.44A, 1.80V/cell) |
| | 139.68 Ah | (72hr, 1.94A, 1.80V/cell) |
| | 120.0 Ah | (10hr, 12.0A, 1.80V/cell) |
| Max. Discharge Current (5s) | 960A | |
| Internal Resistance(25°C) | Approx. 5.2mΩ | |
| Operating Temp. Range | Discharge | -20°C~55°C (-4°F~131°F) |
| | Charge | 0°C~40°C (32°F~104°F) |
| | Storage | -20°C~50°C (-4°F~122°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Max. Charging Current(25°C) | 30.0A | |
| Charge voltage(25°C) | Float | 13.5V |
| | Temp. Coefficient | -3mV/cell/°C |
| | Cycle(Equalization) | 14.1~14.4V |
| Effect of temp. to Capacity | 40°C (104°F) | 106% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | ≤3% per month at 25°C | |



Layout



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

| F.V/Time | 1h | 2h | 3h | 5h | 8h | 10h | 24h | 48h | 72h | 100h | 120h |
|------------|------|------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 55.8 | 35.4 | 27.0 | 19.3 | 13.6 | 11.5 | 5.46 | 2.80 | 1.89 | 1.40 | 1.28 |
| 1.80V/cell | 61.2 | 38.3 | 28.9 | 20.3 | 14.2 | 12.0 | 5.54 | 2.84 | 1.94 | 1.44 | 1.31 |
| 1.75V/cell | 65.2 | 40.2 | 30.2 | 21.1 | 14.5 | 12.2 | 5.65 | 2.89 | 1.98 | 1.47 | 1.33 |
| 1.70V/cell | 68.9 | 41.6 | 31.4 | 21.6 | 14.8 | 12.4 | 5.74 | 2.95 | 2.05 | 1.50 | 1.37 |
| 1.67V/cell | 71.2 | 43.1 | 32.5 | 22.1 | 15.0 | 12.6 | 5.85 | 3.04 | 2.10 | 1.54 | 1.40 |
| 1.60V/cell | 73.1 | 44.5 | 33.2 | 22.6 | 15.2 | 12.8 | 5.96 | 3.08 | 2.14 | 1.59 | 1.43 |

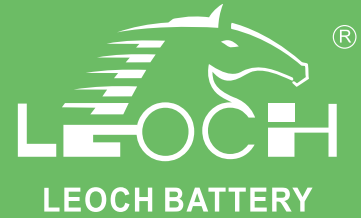
Constant Power Discharge (Watts/cell) at 25 °C (77 °F)

| F.V/Time | 1h | 2h | 3h | 5h | 8h | 10h | 24h | 48h | 72h | 100h | 120h |
|------------|-------|------|------|------|------|------|-------|------|------|------|------|
| 1.85V/cell | 108.6 | 69.1 | 52.8 | 38.0 | 26.9 | 22.9 | 10.92 | 5.61 | 3.80 | 2.82 | 2.58 |
| 1.80V/cell | 118.6 | 74.5 | 56.4 | 39.8 | 28.1 | 23.9 | 11.06 | 5.67 | 3.89 | 2.89 | 2.63 |
| 1.75V/cell | 125.5 | 78.0 | 59.0 | 41.3 | 28.8 | 24.4 | 11.27 | 5.78 | 3.98 | 2.96 | 2.68 |
| 1.70V/cell | 132.0 | 80.4 | 61.0 | 42.2 | 29.3 | 24.6 | 11.42 | 5.89 | 4.10 | 3.01 | 2.75 |
| 1.67V/cell | 135.6 | 82.7 | 62.9 | 43.1 | 29.6 | 25.0 | 11.64 | 6.06 | 4.19 | 3.08 | 2.80 |
| 1.60V/cell | 139.0 | 85.1 | 64.0 | 43.9 | 30.1 | 25.3 | 11.84 | 6.13 | 4.27 | 3.17 | 2.86 |



Solar Series-Tubular Gel

12V 60PzV120(12V144Ah)



Applications

- Green energy systems (solar, wind, hydro, etc)
- Telecommunications installations
- Solar power stations
- Alarm installations
- Railway crossing
- Street lightening
- Pump systems
- Signal station
- Street signs
- Traffic lights
- Lawn lamp

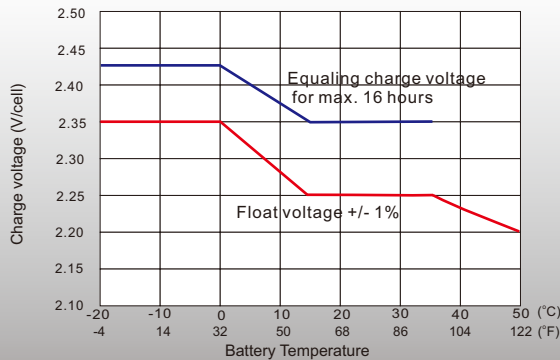
General Features

- 20 years design life(20°C)
- Better recovery performance
- Wide working temperature range (-20~55)°C
- No electrolyte stratification provides longer service life
- High recombination efficient
- Build in copper core based in lead will carry large current
- Separator imported form AMER-SIL high porosity. PVC-SiO₂ and low resistance
- Pasted negative plate special grid design increase the active material. availability large current discharge and charge ability
- Tubuler type positive plate (polyester tube) prevent the active material from falling. Muti metal alloy pressed positive grid increase the anti corrosion ability and service life

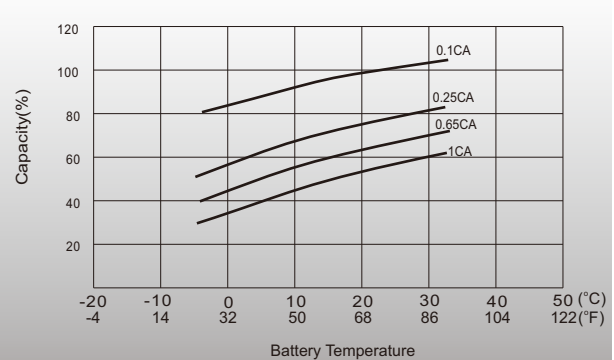
Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- CE, IEC Certified
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

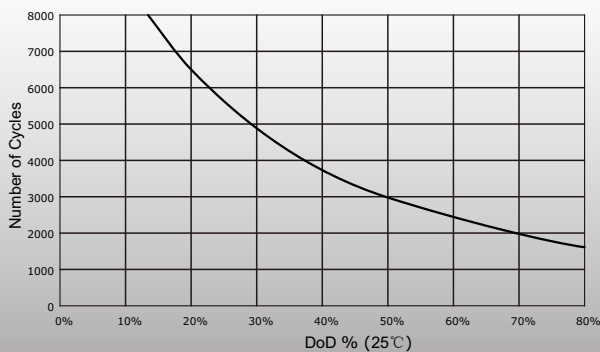
Charge voltage vs ambient temperature curve



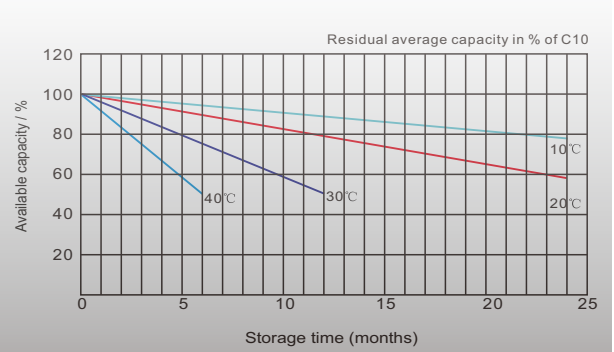
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



General Relation of Capacity VS. Storage Time



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