

Battery made in **GEL technology** equipped with self-sealing valves which exclude excessive pressure in the cells. Due to large number of cycles and high resistance to deep discharge, EGC series batteries are perfect solution for electric motor driven vehicles and equipment.

TECHNICAL DATA

| | | |
|---|-------------------------|-------------------------------|
| Nominal voltage | 12 V | |
| Nominal capacity | 180 Ah / C ₅ | |
| Cell per unit | 6 | |
| Technology | GEL | |
| Design life | 10~12 years @ 20°C* | |
| | 8 years @ 25°C | |
| Dimensions | height | 219,0 mm |
| | length | 522,0 mm |
| | width | 240,0 mm |
| Weight | | ~67,5 kg |
| Capacity @ 25°C | 20h | 9,85A @ 1,80V/cell. 197,0 Ah |
| | 10h | 18,9A @ 1,80V/cell. 189,0 Ah |
| | 5h | 35,7A @ 1,75V/cell. 180,0 Ah |
| | 1h | 119,7A @ 1,60V/cell. 119,7 Ah |
| Ambient nominal temperature range | charge | 0°C ~ 40°C |
| | discharge | -20°C ~ 50°C |
| | storage | -20°C ~ 40°C |
| Internal resistance | @ fully charge battery | ≤3,5 mΩ |
| Charging voltage @ 20°C | standby use | 13,5V to 13,8V (-18 mV/°C) |
| | cycle use | 14,4 V to 15,0V (-24 mV/°C) |
| Charging current | recommended | 18 A |
| | maximum | 42 A |
| Maximum discharge current (for 5 sec) | | 800 A |
| Capacity retention during storage @ 20°C (self discharge) | after 1 month | 97 % |
| | after 6 months | 79 % |
| | after 12 months | 60 % |
| Container material | standard | ABS UL 94-HB |
| | optional | ABS UL 94-V0** |
| Terminal | insert terminal | I3 |
| Terminal hardware initial torque | | 10,0 Nm |

*) - According to Eurobat (High Performance group) ***) - Flame-retardant

NO TRANSPORT RESTRICTED

Not restricted for air, surface and water transport. Classified as non-hazardous material (IATA/ICAO Special Provision A67, DOT-CFR Title 49 parts 171-189, IMDG amendment 27)

DISCHARGE CHARACTERISTICS

• Constant current (Current [A], 25°C / 77°F)

| F.V. V/cell | Discharge time | | | | | | | | | | |
|----------------|----------------|-------|------|------|------|------|------|-------|-------|-------|-------|
| | 30 min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 12h | 20h |
| 1,80 | 182,0 | 111,7 | 64,0 | 47,9 | 39,4 | 35,1 | 29,7 | 22,30 | 18,49 | 16,10 | 9,84 |
| 1,75 | 184,6 | 115,1 | 64,0 | 48,6 | 39,4 | 35,7 | 30,2 | 22,79 | 18,89 | 15,84 | 9,85 |
| 1,70 | 185,7 | 117,7 | 65,5 | 49,1 | 40,3 | 36,0 | 30,5 | 22,99 | 19,06 | 16,21 | 10,08 |
| 1,65 | 189,4 | 119,1 | 65,7 | 49,7 | 40,4 | 36,2 | 30,6 | 23,04 | 19,10 | 16,24 | 10,10 |
| 1,60 | 189,4 | 119,7 | 66,0 | 49,9 | 40,6 | 36,3 | 30,7 | 23,09 | 19,14 | 16,32 | 10,15 |

• Constant power (Power [W/cell], 25°C / 77°F)

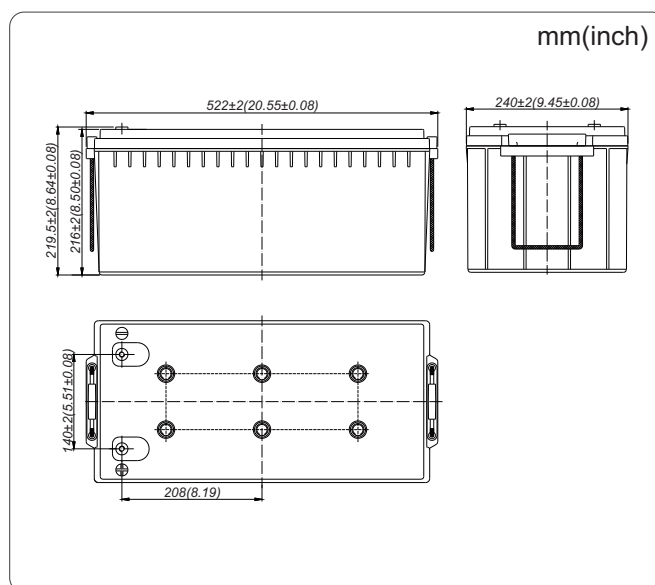
| F.V. V/cell | Discharge time | | | | | | | | | | |
|----------------|----------------|-------|-------|------|------|------|------|------|------|-------|-------|
| | 30 min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 12h | 20h |
| 1,80 | 372,8 | 221,0 | 127,9 | 95,7 | 78,7 | 70,2 | 59,4 | 44,6 | 37,0 | 32,22 | 19,68 |
| 1,75 | 378,5 | 227,2 | 128,4 | 97,2 | 79,0 | 71,3 | 60,3 | 45,6 | 37,8 | 31,76 | 19,75 |
| 1,70 | 381,5 | 232,3 | 131,0 | 98,3 | 80,6 | 71,9 | 60,8 | 46,0 | 38,1 | 32,41 | 20,15 |
| 1,65 | 382,2 | 234,8 | 131,1 | 99,4 | 80,7 | 72,2 | 61,1 | 46,1 | 38,2 | 32,43 | 20,17 |
| 1,60 | 382,8 | 237,2 | 131,3 | 99,9 | 80,8 | 72,4 | 61,2 | 46,2 | 38,3 | 32,49 | 20,20 |

F.V. - Final voltage

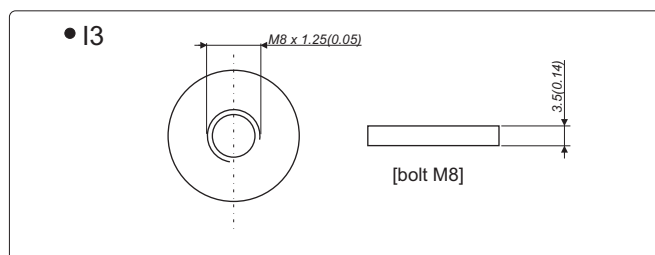
APPLICATIONS

- Uninterruptible Power Supplies (UPS)
- emergency lighting systems
- street lights
- telecommunication power plants
- telecommunication PBAX
- cable television
- solar powered systems
- equipment driven by electric motors
- marine
- medical equipment

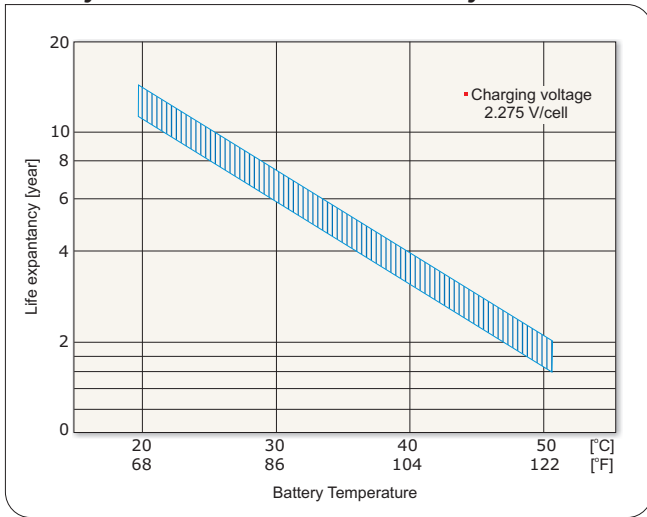
DIMENSIONS



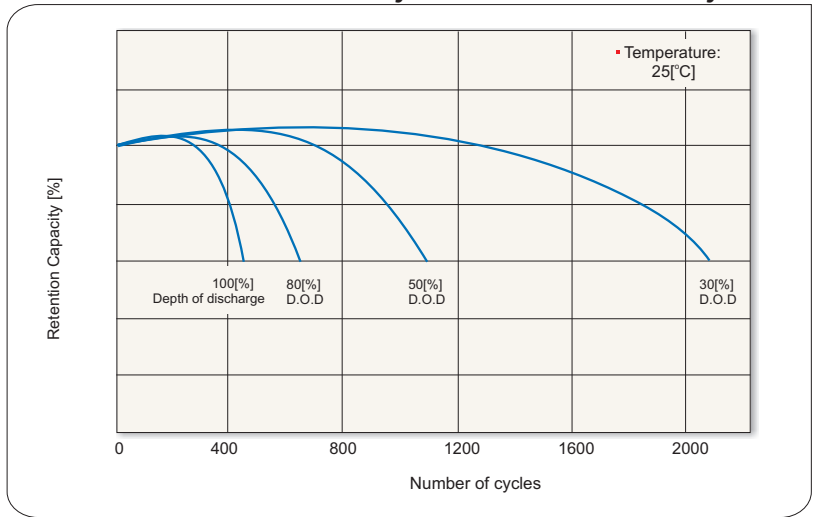
TERMINALS



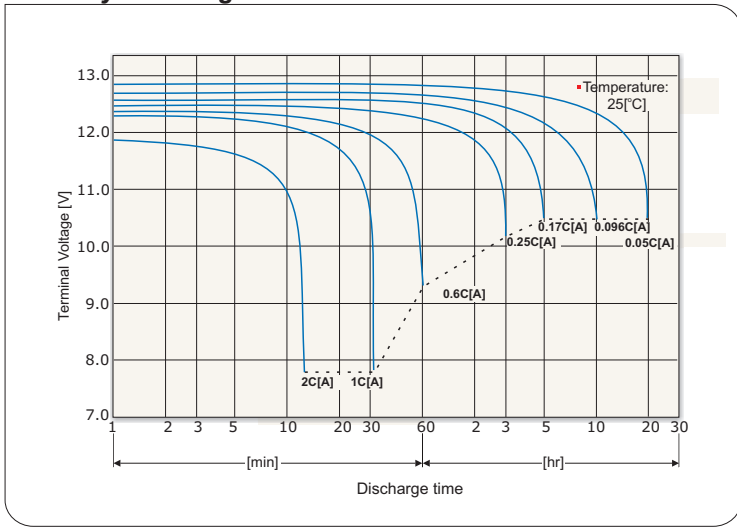
Battery life characteristics of standby use



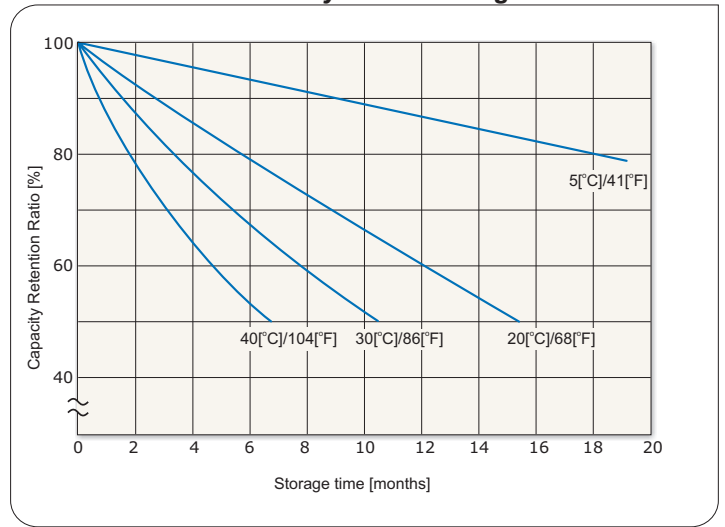
Battery life characteristics of cycle use



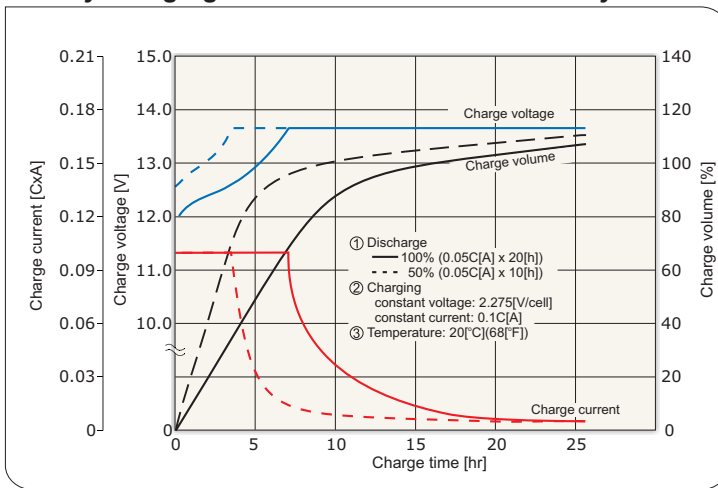
Battery discharge characteristics



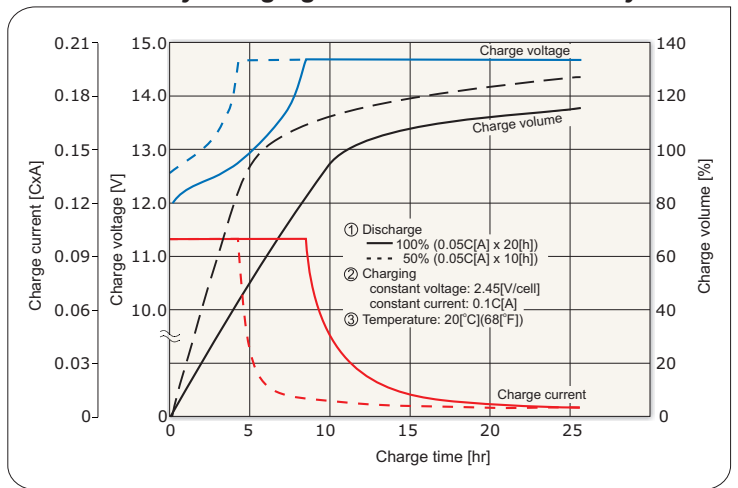
Battery self discharge characteristics



Battery charging characteristics for the standby use



Battery charging characteristics for the cycle use



Battery discharge current and final discharge voltage

| Discharge current [A] | 0.2C > I | 0.2C ≤ I < 0.5C | 0.5C ≤ I < 1.0C | 1.0C ≤ I |
|----------------------------------|----------|-----------------|-----------------|----------|
| Final discharge voltage [V/cell] | 1.75 | 1.70 | 1.55 | 1.30 |



*) C - Capacity