



DATASHEET

GHL 55-12

12V 55AH

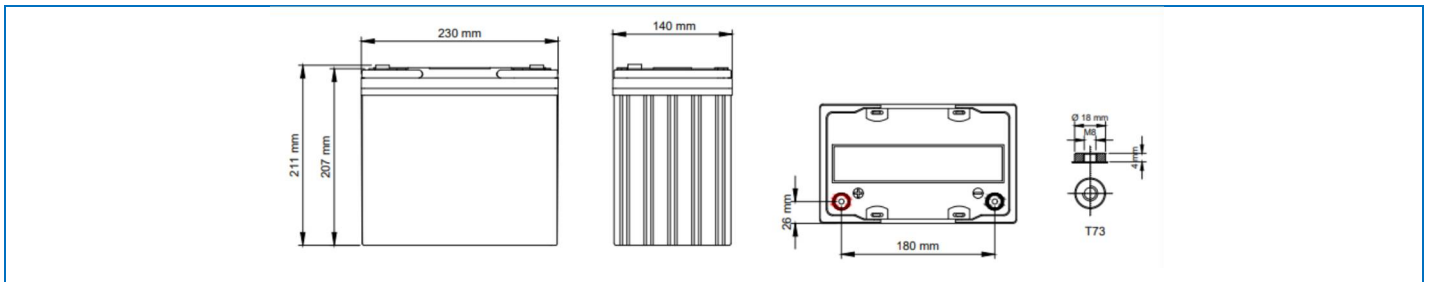
GEL SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 12 Years – Long Life

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

| Nominal Voltage | Nominal Capacity | Dimension ±3mm | | | | Weight ±2% | Max Discharge Current (5s) | Internal Resistance | Standard Terminal | Container Material |
|-----------------|------------------|-------------------|-------|-------|-------|---------------|-------------------------------|---------------------|-------------------|--------------------|
| | | L | W | H | TH | | | | | |
| 12V | 55AH | 230mm | 138mm | 211mm | 216mm | 16,36kg | 660A | ≈7.2 mΩ | M6 | ABS UL94-V0 |



CONSTANT-VOLTAGE CHARGE

| Rated Capacity | |
|----------------------------------|--------|
| 20 hour rate (2.75A) | 57.8AH |
| 10 hour rate (5.5A) | 55.0AH |
| 5 hour rate (9.35A) | 46.8AH |
| 3 hour rate (13.75A) | 41.3AH |
| 1 hour rate (33.0A) | 34.7AH |
| Capacity affected by temperature | |
| 40°C (104°F) | 103% |
| 25°C (77°C) | 100% |
| 0°C (32°F) | 86% |

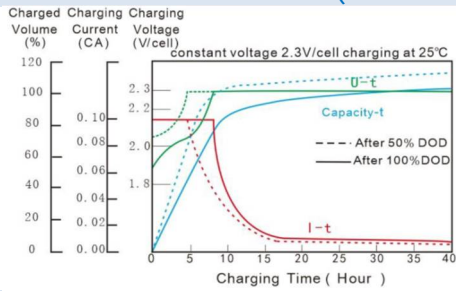
| Cycle Application |
|--|
| 1. Limit initial current less than 11.0A. |
| 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F). |
| 3. Hold at 14.1V to 14.4V until current drop to under 0.33A for at least 3 hours. |
| 4. Temperature compensation coefficient of charging voltage is -30mV/°C. |
| Standby Service |
| 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 11.0A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status. |
| 2. Temperature compensation coefficient of charging voltage is -18mV/°C. |

| Nominal Operating Temp. Range |
|-------------------------------|
| 25±3°C (77±5°F) |

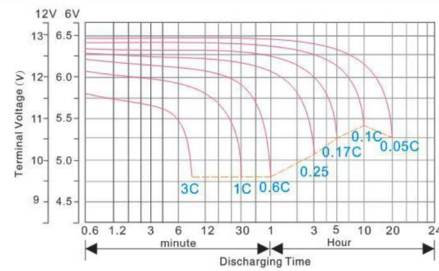
| Operating Temperature |
|--|
| Wide operating temperature range from -20°C~55°C |

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

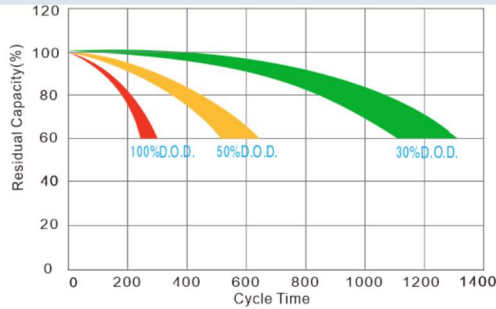
CHARGE CHARACTERISTICS (25°C/77°F)



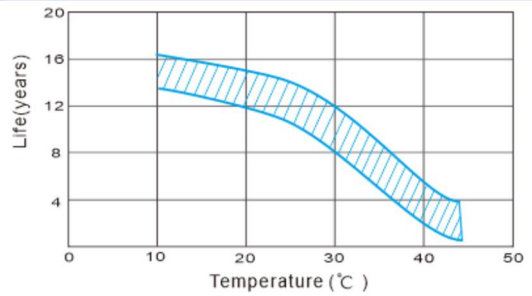
DISCHARGE CHARACTERISTIC (25°C/77°F)



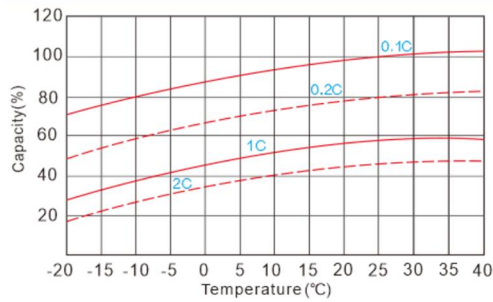
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



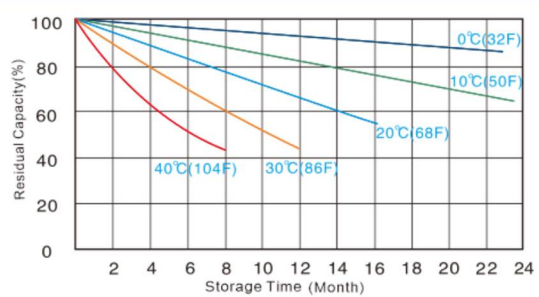
TEMPERATURE VS FLOAT LIFE



CAPACITY CURVE AT DIFFERENT TEMPERATURE



SELF DISCHARGE CHARACTERISTICS



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

| End Voltage (V) | 10 min | 15 min | 30 min | 45 min | 1 h | 1,5 h | 2 h | 3 h | 5 h | 8 h | 10 h | 20 h |
|-----------------|--------|--------|--------|--------|------|-------|------|------|------|------|------|------|
| 9.6V | 134 | 106 | 59 | 51 | 34.7 | 27.5 | 23.3 | 14.3 | 9.96 | 6.82 | 5.73 | 2.98 |
| 9.9V | 128 | 101 | 57 | 50 | 34.1 | 27.0 | 22.7 | 14.1 | 9.74 | 6.71 | 5.67 | 2.95 |
| 10.2V | 122 | 96 | 54 | 48 | 33.0 | 26.4 | 22.1 | 13.8 | 9.52 | 6.60 | 5.61 | 2.92 |
| 10.5V | 116 | 91 | 51 | 46 | 32.5 | 25.9 | 21.6 | 13.5 | 9.35 | 6.44 | 5.56 | 2.89 |
| 10.8V | 110 | 87 | 49 | 45 | 31.9 | 25.3 | 21.1 | 13.2 | 9.08 | 6.33 | 5.50 | 2.86 |

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

| End Voltage (V) | 10 min | 15 min | 30 min | 45 min | 1 h | 1,5 h | 2 h | 3 h | 5 h | 8 h | 10 h | 20 h |
|-----------------|--------|--------|--------|--------|-----|-------|-----|-----|-----|-----|------|------|
| 9.6V | 1493 | 1237 | 766 | 536 | 446 | 326 | 244 | 182 | 117 | 89 | 68.7 | 36.9 |
| 9.9V | 1422 | 1178 | 729 | 518 | 436 | 317 | 238 | 177 | 114 | 87 | 68.0 | 36.6 |
| 10.2V | 1354 | 1122 | 694 | 501 | 425 | 310 | 232 | 173 | 112 | 85 | 67.3 | 36.2 |
| 10.5V | 1290 | 1069 | 661 | 484 | 414 | 302 | 226 | 168 | 109 | 84 | 66.7 | 35.8 |
| 10.8V | 1228 | 1018 | 630 | 468 | 404 | 295 | 221 | 164 | 106 | 82 | 66.0 | 35.5 |



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