



STRYTEN ENERGY

E-SERIES

Absolyte® AGPS



THE ENERGY TO CHALLENGE 

FROM A WORLD LEADER IN VRLA BATTERY TECHNOLOGY

- Environmentally friendly positive grid alloy provides reduced hazardous material content¹ and allows global recycling
- Lead-Calcium-Tin positive grid alloy provides long life in both float and cycling applications
- Absorbed glass mat (AGM) separators provide >99% recombination efficiency
- Low resistance of the glass mat improves high rate discharge performance
- The single cells may be operated in the horizontal (preferred) or vertical position²
- No water additions are required
- Periodic visual inspections, voltage readings, and connection retorquing is all that is required

APPLICATIONS

- Railroad Signal and Communications
- Photovoltaics
- Cellular Radio
- Alternative Energy Systems
- Telecommunications

ADDED FEATURES AND BENEFITS

- Does not require separate battery room
- Can be integrated into other equipment enclosures
- Freezing tolerant
- Deep discharge recovery
- Accepts high rate charge
- Enhanced Post Access for ease of maintenance and battery health

- Globally recyclable
- Greater use of reprocessed materials compared to prior Absolyte products

CELL SPECIFICATIONS

- Cells are housed in protective, individual steel trays with convenient lifting handles for easy transport to remote locations
- Design Life – 20 Years in Float Applications @ 25°C (77°F)³
- Container and Cover – Flame retardant UL94 V-0/28% L.O.I. polypropylene is optional
- Separators – Spun glass, microporous matrix
- Safety Vent – 3.5-9 PSI opening pressure, self-resealing
- Terminals – Solid copper insert
- Positive Plate – Lead-Calcium-Tin grid alloy
- Negative Plate – Lead calcium grid alloy
- Self Discharge – 0.5 to 1% per week maximum @ 25°C (77°F)
- Float Voltage – 2.23 to 2.27 VPC (2.25 recommended) @ 25°C (77°F)
- Cycle Life – 1200 Cycles to 80% DOD @25°C (77°F)³
- Operating temperature – Temperature excursions between -40°C (-40°F) to +55°C (131°F) allowed (battery performance and life will be affected)

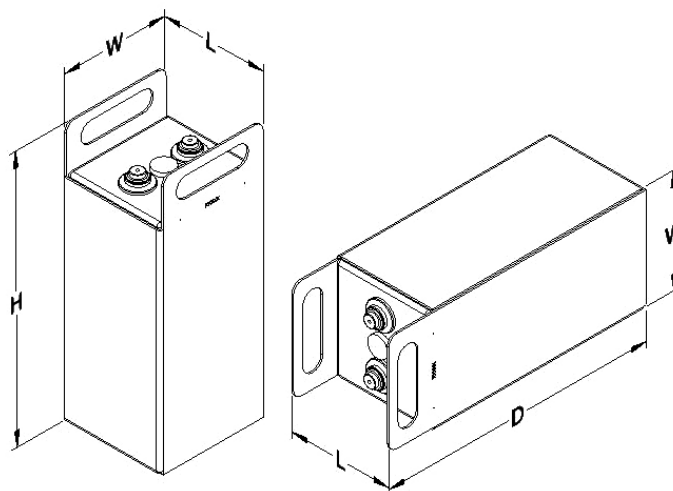
1. Compared to Absolyte IIP

2. 50G single cells only

3. When operated per I&O Manual

ABSOLYTE AGPS SINGLE CELL MODULE WEIGHTS AND DIMENSIONS

| CELL TYPE | NOM AH CAP (8 HR) | LENGTH | | WIDTH | | DEPTH OR HEIGHT | | WEIGHT | |
|-----------|----------------------|--------|-----|-------|-----|--------------------|-----|--------|----|
| | | IN | MM | IN | MM | IN | MM | LB | KG |
| 50G05 | 104 | 3.80 | 97 | 6.49 | 165 | 16.00 | 406 | 32 | 15 |
| 50G07 | 152 | 3.80 | 97 | 6.49 | 165 | 16.00 | 406 | 39 | 18 |
| 50G11 | 264 | 4.55 | 116 | 6.49 | 165 | 16.00 | 406 | 50 | 23 |
| 50G13 | 312 | 5.30 | 135 | 6.49 | 165 | 16.00 | 406 | 58 | 26 |
| 50G15 | 368 | 6.05 | 154 | 6.55 | 166 | 16.00 | 406 | 66 | 30 |
| 50G19 | 472 | 7.67 | 195 | 6.67 | 169 | 16.00 | 406 | 91 | 41 |
| 50G27 | 680 | 10.67 | 271 | 6.67 | 169 | 16.00 | 406 | 124 | 56 |



ABSOLYTE AGPS PERFORMANCE SPECIFICATIONS

AMPERES TO 1.75 FINAL VOLTS PER CELL @ 25° C (77° F)

| CELL TYPE | HOURS | | | | | | | | | | | | | |
|--------------|-------|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|
| | 100 | 72 | 36 | 24 | 20 | 16 | 12 | 10 | 8 | 6 | 4 | 3 | 2 | 1 |
| 50G05 | 1.4 | 1.9 | 3.6 | 5.1 | 6.0 | 7.3 | 9.3 | 11 | 13 | 16 | 22 | 27 | 37 | 58 |
| 50G07 | 2.1 | 2.9 | 5.5 | 7.7 | 9.1 | 11 | 14 | 16 | 19 | 24 | 33 | 41 | 56 | 87 |
| 50G11 | 3.6 | 4.9 | 9.1 | 13 | 15 | 18 | 23 | 27 | 33 | 41 | 56 | 69 | 94 | 146 |
| 50G13 | 4.3 | 5.9 | 11 | 15 | 18 | 22 | 28 | 33 | 39 | 49 | 67 | 83 | 112 | 175 |
| 50G15 | 5.1 | 6.9 | 12 | 18 | 21 | 25 | 32 | 38 | 46 | 57 | 78 | 97 | 131 | 204 |
| 50G19 | 6.5 | 8.9 | 16 | 23 | 27 | 33 | 42 | 49 | 59 | 74 | 101 | 125 | 169 | 262 |
| 50G27 | 9.5 | 12 | 23 | 33 | 39 | 47 | 60 | 71 | 85 | 107 | 146 | 181 | 244 | 379 |

Note: Design and/or specifications subject to change without notice. If questions arise, please contact your local GNB sales representative for clarification.

The Energy to Challenge

Stryten Energy helps solve the world's most pressing energy challenges with a broad range of energy storage solutions and components across the Essential Power, Motive Power, Transportation, Military and Government sectors. Headquartered in Alpharetta, Georgia, we partner with some of the world's most recognized companies to meet the growing demand for reliable and sustainable energy storage capacity. Stryten powers everything from submarines to subcompacts, microgrids, warehouses, distribution centers, cars, trains and trucks. Our stored energy technologies include advanced lead, lithium and vanadium redox flow batteries, intelligent chargers and energy performance management software that keep people on the move and supply chains running.

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