

HZY12-12 Valve Regulated Lead Acid battery.
5 year design life for stand by power applications.
12 Volts 12 Ah (C20)

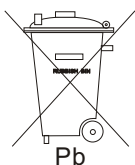
Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Fully tank formed plates
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - VO on request
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 896-2, DIN 43534, BS 6290 Pt4, Eurobat.



Specifications

| | |
|-----------------------|--|
| Nominal Voltage | 12 Volts |
| Nominal Capacity | 12Ah (C20 @ 20 °C) |
| Design Life | 5 Years |
| Operating Temperature | -20 °C to 50 °C |
| Grid alloy | Calcium / Tin lead alloy |
| Plates | Flat Pasted |
| Separator | Microporous polymer |
| Active material | Very high purity lead |
| Case and cover | ABS (VO on request) |
| Charge Voltage | Float 2.25 - 2.30 VPC @25 °C Cycling 2.35 @25 °C Max. 2.4 VPC Max ripple 0.05C (A) |
| Electrolyte | Gelled Sulphuric acid Analytical grade purity |
| Venting Valve | EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa) |
| Terminal | Epoxy sealed by extended mechanical paths |



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

Website: www.hazebattery.com
E mail : sales@hazebattery.com

Sealed Lead Acid 12 Volt Bloc GEL Range
PRODUCT SHEET HZY12-12

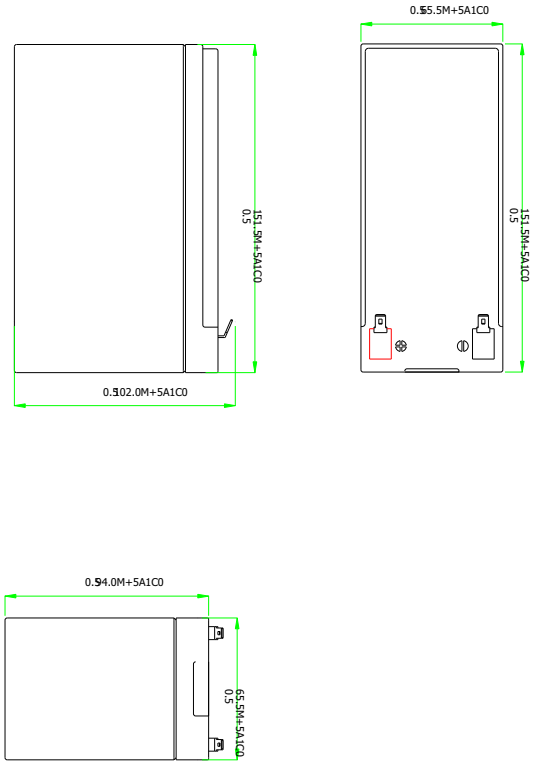
**12V
Gel**

Specifications

| | | | |
|------------------|----------------------------------|-------------------|---------------------------|
| Nominal Vdgtage | | 12V | |
| Nominal Capacity | | 12 Ah | |
| Dimensions | Total Height (Inc. terminals) | 96 mm (101) mm | 3.78 inches n/a inches |
| | Length | 150 mm | 5.91 inches |
| | Width | 97 mm | 3.82 inches |
| | Weight | 4 Kg | 8.84 lbs |

Characteristics

| | | |
|---|---------------------------------|----------------------------|
| Capacity 20 °C (68 °F) To 1.7 volts | 20 hour rate | 13.1 Ah |
| | 10 hour rate | 11.2 Ah |
| | 5 hour rate | 9.8 Ah |
| | 1 hour rate | 7.3 Ah |
| | 15 min rate | 4.8 Ah |
| | Internal Resistance | 20 mOhms |
| Capacity correction for Temperature Variations (C ₂₀) | 40 °C (104 °F) | 102% |
| | 20 °C (68 °F) | 100% |
| | 0 °C (32 °F) | 85% |
| | -15 °C (5 °F) | 65% |
| Self-Discharge 20 °C (68 °F) | Capacity after 1 months storage | 98% |
| | Capacity after 3 months storage | 94% |
| | Capacity after 6 months storage | 86% |
| Short Circuit Current 20 °C (68 °F) | 500 | |
| Terminal | Standard | Faston T1 |
| | Optional | Faston T2 |
| Charging (Constant Voltage) | Cyclic | 2.35 - 2.40 VPC (20-25 °C) |
| | Float | 2.27 - 2.30 VPC (15-25 °C) |



Constant Power Discharge - Watts per Cell @20 °C

| End V per Cell | 5M | 10M | 15M | 20M | 25M | 30M | 35M | 40M | 45M | 60M | 90M | 2 hr | 3 hr | 4 hr |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.85 | 46.5 | 35.0 | 27.9 | 23.7 | 20.5 | 18.1 | 16.2 | 14.7 | 13.7 | 11.3 | 8.52 | 6.86 | 4.86 | 3.8 |
| 1.80 | 53.7 | 41.4 | 33.3 | 28.4 | 24.7 | 21.9 | 19.6 | 17.9 | 16.6 | 13.8 | 10.4 | 8.42 | 5.96 | 4.63 |
| 1.75 | 57.3 | 43.0 | 34.3 | 29.1 | 25.2 | 22.2 | 19.9 | 18.2 | 16.8 | 13.9 | 10.4 | 8.42 | 5.96 | 4.63 |
| 1.70 | 60.9 | 44.6 | 35.2 | 29.8 | 25.7 | 22.6 | 20.2 | 18.4 | 17.0 | 13.9 | 10.5 | 8.42 | 5.96 | 4.63 |
| 1.65 | 62.7 | 45.4 | 35.6 | 30.0 | 25.7 | 22.6 | 20.2 | 18.4 | 17.0 | 13.9 | 10.5 | - | - | - |
| 1.60 | 66.4 | 47.1 | 36.4 | 30.4 | 26.1 | 22.8 | 20.2 | 18.4 | 17.0 | 13.9 | 10.5 | - | - | - |

Constant Amps Discharge - Amps @20 °C

| End V per Cell | 5M | 10M | 15M | 20M | 25M | 30M | 35M | 40M | 45M | 60M | 90M | 2 hr | 3 hr | 4 hr | 5 hr | 8 hr | 10 hr | 12 hr | 20 hr |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.85 | 25.0 | 18.7 | 14.9 | 12.6 | 10.9 | 9.56 | 8.52 | 7.75 | 7.16 | 5.88 | 4.41 | 3.54 | 2.49 | 1.93 | 1.60 | 1.09 | 0.91 | 0.79 | 0.55 |
| 1.80 | 29.3 | 22.5 | 18.0 | 15.3 | 13.2 | 11.7 | 10.4 | 9.49 | 8.77 | 7.26 | 5.44 | 4.37 | 3.07 | 2.37 | 1.95 | 1.31 | 1.09 | 0.94 | 0.62 |
| 1.75 | 31.6 | 23.6 | 18.7 | 15.8 | 13.6 | 11.9 | 10.6 | 9.66 | 8.91 | 7.30 | 5.47 | 4.38 | 3.08 | 2.38 | 1.96 | 1.33 | 1.11 | 0.96 | 0.64 |
| 1.70 | 33.9 | 24.7 | 19.4 | 16.3 | 14.0 | 12.2 | 10.8 | 9.83 | 9.04 | 7.34 | 5.49 | 4.38 | 3.08 | 2.39 | 1.97 | 1.34 | 1.12 | 0.97 | 0.66 |
| 1.65 | 35.1 | 25.2 | 19.6 | 16.4 | 14 | 12.2 | 10.9 | 9.85 | 9.06 | 7.35 | 5.49 | - | - | - | - | - | - | - | - |
| 1.60 | 37.3 | 26.2 | 20.1 | 16.7 | 14.2 | 12.4 | 10.9 | 9.89 | 9.10 | 7.36 | 5.50 | - | - | - | - | - | - | - | - |

Ampere Hour @20 °C

| End V per Cell | 2 hr | 3 hr | 4 hr | 5 hr | 8 hr | 10 hr | 12 hr | 20 hr |
|----------------|------|------|------|------|------|-------|-------|-------|
| 1.85 | 7.08 | 7.48 | 7.73 | 7.98 | 8.69 | 9.12 | 9.51 | 10.9 |
| 1.80 | 8.74 | 9.21 | 9.50 | 9.77 | 10.5 | 10.9 | 11.3 | 12.4 |
| 1.75 | 8.75 | 9.23 | 9.52 | 9.81 | 10.6 | 11.1 | 11.5 | 12.8 |
| 1.70 | 8.77 | 9.24 | 9.54 | 9.85 | 10.7 | 11.2 | 11.7 | 13.1 |



UL Recognised
Component
MH28512

