



12LS-7.2

12V 7,2Ah

VdS G112070

Design lifetime 5 years



Q-Batteries Security Akku 12LS-7.2 is an AGM battery with VdS-approval. It is designed for stand-by applications such as burglar-systems or UPS-systems.

Application:

burglar-systems, UPS-systems,
fire-detecting-systems,
telecommunication-systems

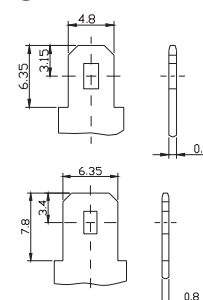
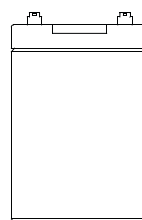
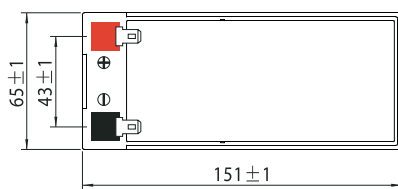
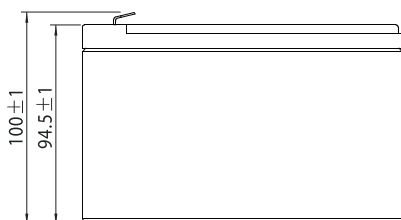


Specification:

| | | | |
|------------------------------------|---|-------------------------|---------------------------|
| Voltage Per Unit | 12 V | | |
| Capacity | 7,2 Ah (20 h) cell voltage 1.8V / cell | | |
| Cells Per Unit | 6 | | |
| Weight | ca. 2,5 kg +/- 3kg | | |
| Max. Discharge Current | 108 A (5 sec.) | | |
| Internal Resistance | ca. 25m Ω | | |
| Operating Temperature Range Normal | Discharge: - 15°C - 50°C | Charge: -10°C - 50°C | Storage: - 20°C - 50°C |
| Operating Temperature Range | 25°C \pm 5°C | | |
| Self Discharge | Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using. | | |
| Terminal | F1, F2 | | |
| Container Material | A.B.S. (UL94-HB) | | |

Dimensions:

151 Length x 65 Width x 94,5 mm (max. 100) Height



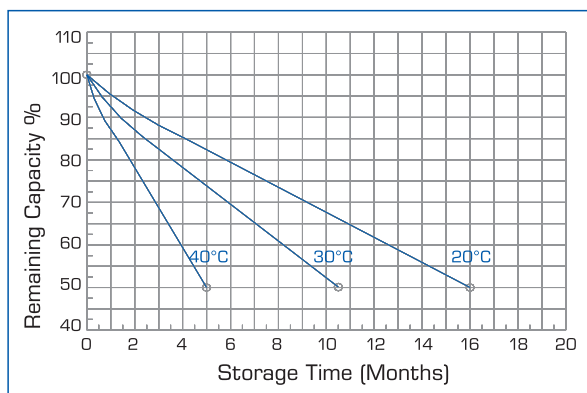
Constant current discharge characteristics: A (25°C)

| FV/Time | 5 Min. | 10 Min. | 15 Min. | 20 Min. | 30 Min. | 45 Min. | 1 HR | 2 HR | 3 HR | 4 HR | 5 HR | 6 HR | 8 HR | 10 HR | 20 HR |
|-------------|--------|---------|---------|---------|---------|---------|------|------|------|------|------|------|-------|-------|-------|
| 1.85 V/cell | 13.7 | 10.5 | 8.72 | 7.54 | 5.83 | 4.30 | 3.62 | 2.14 | 1.68 | 1.36 | 1.11 | 0.96 | 0.777 | 0.649 | 0.356 |
| 1.80 V/cell | 18.4 | 13.5 | 10.5 | 8.91 | 6.88 | 5.00 | 4.06 | 2.34 | 1.80 | 1.45 | 1.19 | 1.03 | 0.825 | 0.670 | 0.360 |
| 1.75 V/cell | 20.8 | 14.8 | 11.5 | 9.59 | 7.14 | 5.18 | 4.24 | 2.42 | 1.84 | 1.49 | 1.22 | 1.06 | 0.839 | 0.688 | 0.364 |
| 1.70 V/cell | 22.9 | 16.1 | 12.3 | 10.1 | 7.43 | 5.39 | 4.38 | 2.48 | 1.89 | 1.53 | 1.25 | 1.08 | 0.851 | 0.701 | 0.370 |
| 1.65 V/cell | 25.2 | 17.4 | 13.1 | 10.7 | 7.84 | 5.53 | 4.48 | 2.52 | 1.97 | 1.58 | 1.29 | 1.11 | 0.864 | 0.716 | 0.375 |
| 1.60 V/cell | 27.8 | 18.9 | 14.0 | 11.4 | 8.28 | 5.76 | 4.52 | 2.63 | 2.03 | 1.63 | 1.33 | 1.13 | 0.872 | 0.724 | 0.377 |

Constant current discharge characteristics: Watt (25°C)

| FV/Time | 5 Min. | 10 Min. | 15 Min. | 20 Min. | 30 Min. | 45 Min. | 1 HR | 2 HR | 3 HR | 4 HR | 5 HR | 6 HR | 8 HR | 10 HR | 20 HR |
|-------------|--------|---------|---------|---------|---------|---------|------|------|------|------|------|------|------|-------|-------|
| 1.85 V/cell | 25.1 | 19.4 | 16.3 | 14.2 | 11.1 | 8.26 | 6.98 | 4.16 | 3.27 | 2.66 | 2.18 | 1.90 | 1.53 | 1.29 | 0.706 |
| 1.80 V/cell | 33.3 | 24.6 | 19.4 | 16.6 | 12.9 | 9.53 | 7.78 | 4.51 | 3.49 | 2.83 | 2.33 | 2.02 | 1.62 | 1.32 | 0.712 |
| 1.75 V/cell | 36.7 | 26.6 | 20.9 | 17.6 | 13.3 | 9.79 | 8.10 | 4.66 | 3.54 | 2.88 | 2.38 | 2.07 | 1.65 | 1.36 | 0.718 |
| 1.70 V/cell | 39.3 | 28.3 | 22.0 | 18.4 | 13.8 | 10.1 | 8.33 | 4.76 | 3.64 | 2.95 | 2.44 | 2.11 | 1.67 | 1.38 | 0.731 |
| 1.65 V/cell | 42.8 | 30.2 | 23.2 | 19.4 | 14.4 | 10.3 | 8.46 | 4.80 | 3.78 | 3.04 | 2.49 | 2.15 | 1.69 | 1.41 | 0.740 |
| 1.60 V/cell | 46.1 | 32.1 | 24.5 | 20.4 | 15.1 | 10.7 | 8.50 | 4.99 | 3.87 | 3.13 | 2.57 | 2.19 | 1.70 | 1.42 | 0.743 |

Storage characteristic:



Charging Method:

Charge the batteries at least once every six months, if they are stored at 25°C

Constant Voltage (V)
-0.2C x 2h + 2.4-2.45V/Cell x 24h, max. Current 0.3CA

Constant Current (A)
-0.2C x 2h + 0.1CA x 12h

Fast
-0.2C x 2h + 0.3CA x 4.0h

Capacity Factors with different Temperature:

| Battery Type | | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|--------------|----------|-------|-------|-----|-----|------|------|------|------|------|------|
| GEL Battery | 6V & 12V | 50% | 70% | 83% | 85% | 90% | 98% | 100% | 102% | 104% | 105% |
| | 2V | 60% | 75% | 85% | 88% | 92% | 99% | 100% | 103% | 105% | 106% |
| AGM Battery | 6V & 12V | 46% | 66% | 76% | 83% | 90% | 98% | 100% | 103% | 107% | 109% |
| | 2V | 55% | 70% | 80% | 85% | 92% | 99% | 100% | 104% | 108% | 110% |