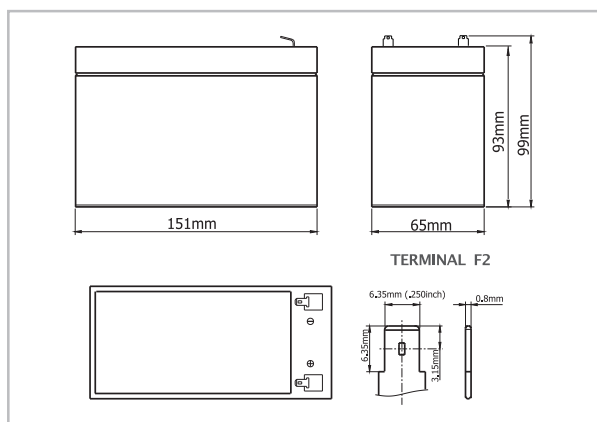


WEIDA HX12-7.2

(12V7.2Ah) – HX General Series VRLA Battery

powermode

BATTERY DIMENSIONS



HX series offers 5 years full maintenance free design life. With optimum design and good reliability, this series is highly suited for security and alarm systems, UPS systems, emergency light systems and other small backup applications.

TECHNICAL SPECIFICATIONS

| | |
|---|--|
| Nominal Voltage (V) | 12 (6 cells per unit) |
| Designed Floating Life (20° C) | 5 Years |
| Nominal Capacity (25° C) | 7.2 Ah @ 20HR-rate (to 1.75Vpc) |
| Dimension (mm) | L151mm x W65mm x H99mm |
| Approx. Weight | 2.2 kg (4.85 lbs) |
| Terminal Type | Fasten Tab F2 |
| Internal Resistance | Approx. 0.02 Ohm (fully charged @ 25°C) |
| Max. Charge Current | 2.16 A |
| Max. Discharge Current (5S) | 105 A |
| Short Circuit Current | 600 A |
| Self Discharge | Approx. 3% per month @ 20°C |
| Ambient Temperature | Discharge: -15~50°C Charge: -15~40° C Storage: -15~40° C |
| Float Charge Voltage (20~25° C) | 13.6-13.8V (-3mV/ cell/ °C) |
| Equalize and cycle Use Charge Voltage (20~25°C) | 14.4-14.8V (-5mV/ cell / °C) |
| Container Material | ABS (UL94-V0 optional) |



ISO9001



ISO14001



Complied standards

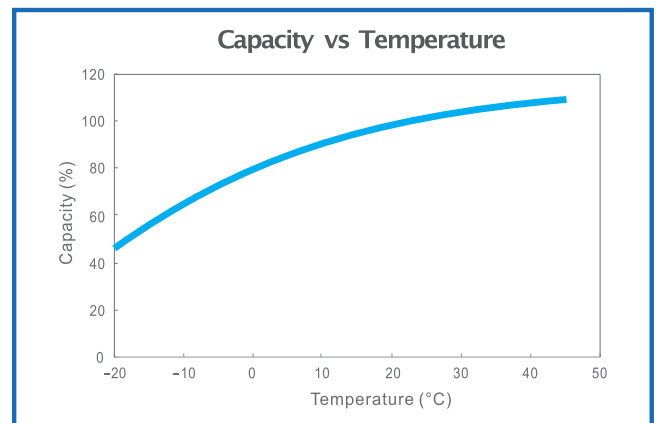
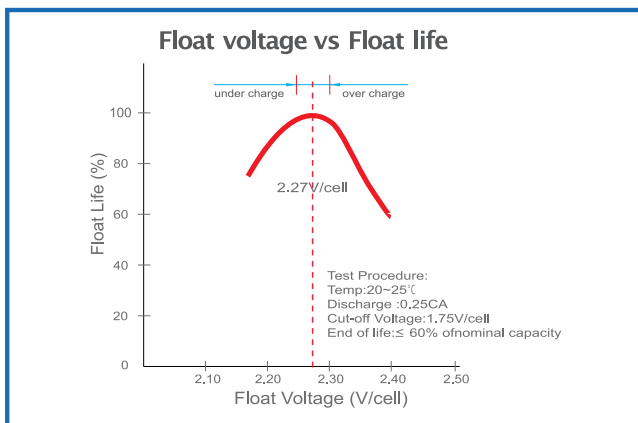
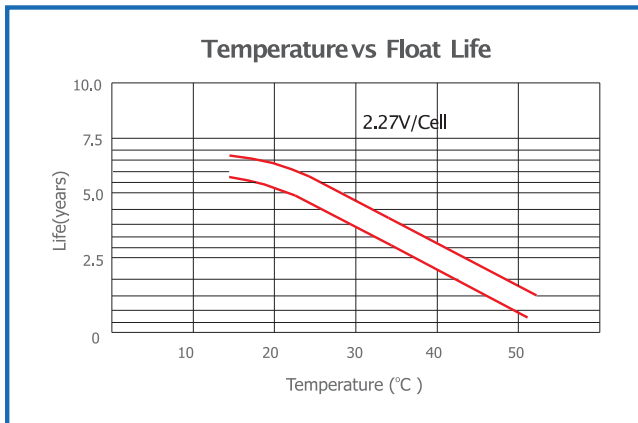
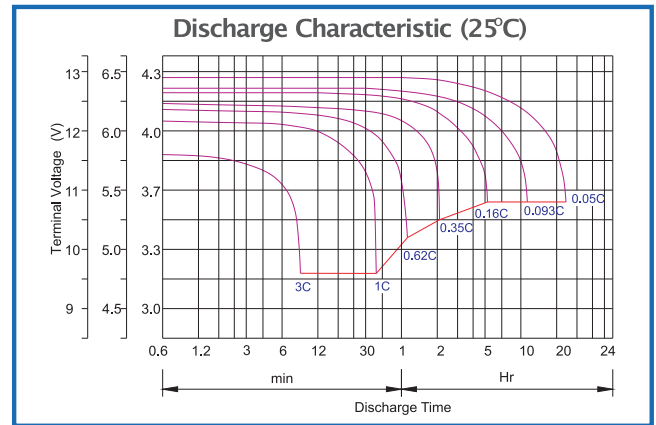
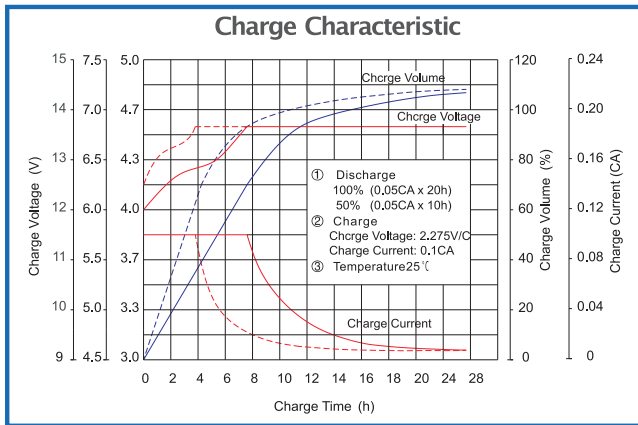
- IEC 61056
- UL1989
- JIS C8702
- GB/T19639

BATTERY DISCHARGE TABLE

| Constant Current Discharge Characteristics: Amps (25°C) | | | | | | | | | | | | |
|---|------|-------|-------|-------|------|------|------|------|------|------|------|-------|
| F.V/Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
| 1.60V | 28.9 | 17.9 | 13.7 | 8.13 | 4.74 | 2.81 | 2.00 | 1.57 | 1.29 | 0.87 | 0.72 | 0.382 |
| 1.67V | 26.8 | 17.3 | 13.2 | 7.93 | 4.68 | 2.78 | 1.98 | 1.54 | 1.28 | 0.86 | 0.71 | 0.375 |
| 1.70V | 24.9 | 16.5 | 12.9 | 7.80 | 4.61 | 2.75 | 1.97 | 1.53 | 1.26 | 0.85 | 0.70 | 0.368 |
| 1.75V | 22.7 | 15.8 | 12.5 | 7.62 | 4.53 | 2.71 | 1.95 | 1.51 | 1.25 | 0.84 | 0.69 | 0.360 |
| 1.80V | 20.3 | 14.9 | 12.2 | 7.48 | 4.44 | 2.67 | 1.92 | 1.49 | 1.23 | 0.83 | 0.68 | 0.352 |
| 1.85V | 18.0 | 14.1 | 11.9 | 7.33 | 4.37 | 2.63 | 1.89 | 1.47 | 1.22 | 0.82 | 0.67 | 0.343 |

| Constant Power Discharge Characteristics: W/cell (25°C) | | | | | | | | | | | | |
|---|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| F.V/Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
| 1.60V | 50.8 | 32.2 | 24.9 | 15.0 | 8.83 | 5.27 | 3.78 | 2.97 | 2.46 | 1.68 | 1.38 | 0.74 |
| 1.67V | 47.8 | 31.4 | 24.2 | 14.7 | 8.78 | 5.24 | 3.77 | 2.95 | 2.45 | 1.67 | 1.37 | 0.73 |
| 1.70V | 44.9 | 30.3 | 23.8 | 14.6 | 8.70 | 5.23 | 3.76 | 2.94 | 2.44 | 1.66 | 1.36 | 0.72 |
| 1.75V | 41.5 | 29.3 | 23.5 | 14.4 | 8.62 | 5.20 | 3.75 | 2.93 | 2.43 | 1.65 | 1.35 | 0.71 |
| 1.80V | 37.6 | 28.0 | 23.1 | 14.3 | 8.52 | 5.18 | 3.73 | 2.92 | 2.42 | 1.64 | 1.34 | 0.70 |
| 1.85V | 33.8 | 26.7 | 22.8 | 14.1 | 8.48 | 5.15 | 3.72 | 2.91 | 2.41 | 1.63 | 1.33 | 0.69 |

CHARACTERISTICS



Discharge Current VS. Discharge Voltage

| Final Discharge Voltage V/cell | 1.75V | 1.70V | 1.60V |
|--------------------------------|------------|-------------------|------------|
| Discharge Current (A) | (A) ≤ 0.2C | 0.2C < (A) < 1.0C | (A) ≥ 1.0C |

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

Charging Method:

| | |
|------------------|--|
| Constant Voltage | 0.2Cx2h+2.4~2.45V/Cellx24h, Max. Current 0.3CA |
| Constant Current | 0.2Cx2h+0.1CAx12h |
| Fast | 0.2Cx2h+0.3CAx4.0h |

Maintenance & Cautions

| |
|---|
| Float Service: |
| ※ Every month, recommend inspection every battery voltage. |
| ※ Every three months, recommend equalization charge for one time. |
| Equalization charge method: |
| Discharge: 100% rate capacity discharge. |
| Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h. |
| ※ Effect of temperature on float charge voltage: -3mV/°C/Cell. |
| ※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage. |

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