

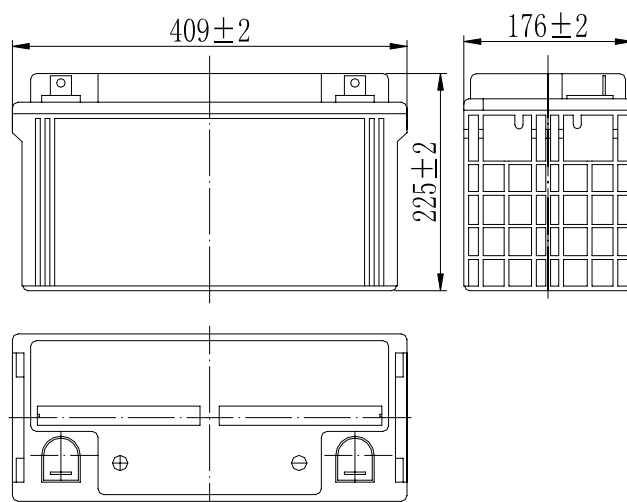
LFP12120HR(12V425 Watts/cell@15min.Rate)

Specifications

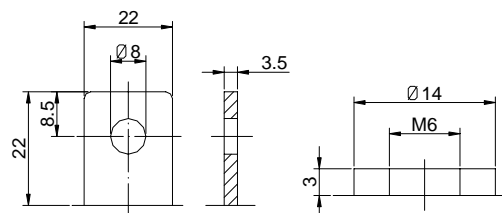
| | | |
|--|--------------|--|
| Nominal Voltage | | 12 V |
| Number of cell | | 6 cells |
| Capacity(10HR, 25°C) | | 120 Ah |
| Capacity(15min.rate, 25°C) | | 425 Watts/cell |
| Dimension | Length | 409 ± 2mm (16.1inch) |
| | Width | 176 ± 2mm (6.93inch) |
| | Height | 225 ± 2mm (8.86inch) |
| | Total Height | 225 ± 2mm (8.86inch) |
| Approx. Weight | | 38kg (83.8lbs) ± 5% |
| Terminal type | | T5/T9 |
| Internal resistance (Fully charged, 25°C) | | Approx. 3.2m Ω |
| Capacity affected by temperature (20HR) | 40°C | 102% |
| | 25°C | 100% |
| | 0°C | 85% |
| | -15°C | 65% |
| Self-discharge (25°C) | 3 month | Remaining Capacity: 91% |
| | 6 month | Remaining Capacity: 82% |
| | 12 month | Remaining Capacity: 65% |
| Nominal operating temperature | | 25°C ± 3°C (77°F ± 5°F) |
| Operating temperature range | Discharge | -15°C ~ 50°C (5°F ~ 122°F) |
| | Charge | -10°C ~ 50°C (14°F ~ 122°F) |
| | Storage | -20°C ~ 50°C (-4°F ~ 122°F) |
| Float charging voltage(25°C) | | 13.50 to 13.80V Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C) | | 14.50 to 14.90V Temperature compensation: -30mV/°C |
| Maximum charging current | | 36A |
| Terminal material | | Copper |
| Maximum discharge current | | 960A(5 sec.) |
| Designed floating life(20°C) | | 7~10 years |

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Dimensions



Terminal



Terminal T5

Terminal T9

Constant Current Discharge Characteristics (A, 25°C)

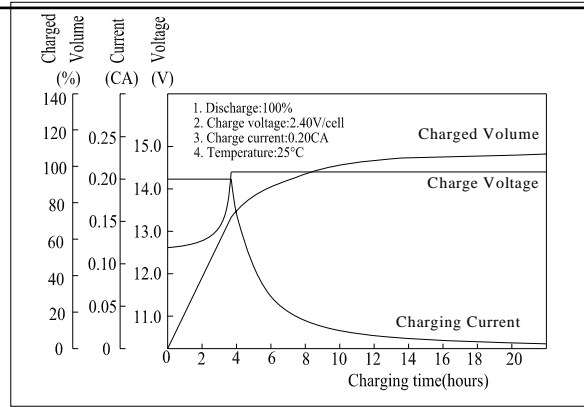
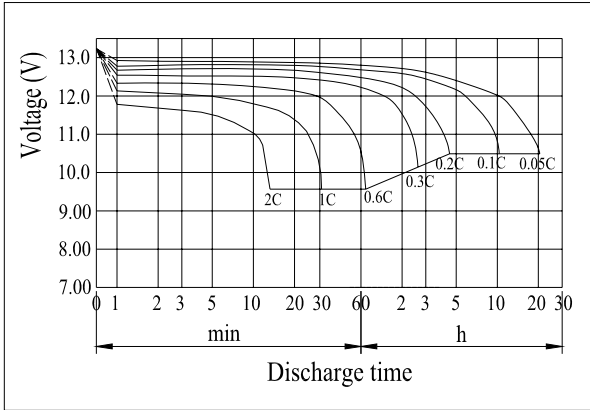
| F.V/TIME | 15min | 20min | 30min | 45min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V/cell | 227 | 181 | 129 | 95.8 | 78.1 | 43.8 | 31.5 | 25.3 | 22.0 | 12.3 | 6.54 |
| 1.65V/cell | 221 | 177 | 126 | 93.8 | 76.9 | 43.6 | 31.3 | 25.2 | 21.9 | 12.3 | 6.52 |
| 1.67V/cell | 220 | 174 | 124 | 92.7 | 76.2 | 43.5 | 31.2 | 25.1 | 21.8 | 12.3 | 6.52 |
| 1.70V/cell | 213 | 171 | 122 | 91.0 | 75.0 | 43.2 | 31.1 | 25.0 | 21.8 | 12.3 | 6.50 |
| 1.75V/cell | 206 | 165 | 119 | 88.8 | 73.5 | 42.6 | 30.8 | 24.8 | 21.6 | 12.2 | 6.46 |
| 1.80V/cell | 195 | 156 | 115 | 85.5 | 71.2 | 41.5 | 29.9 | 24.1 | 21.0 | 12.1 | 6.42 |

Constant Power Discharge Characteristics (Watt/cell, 25°C)

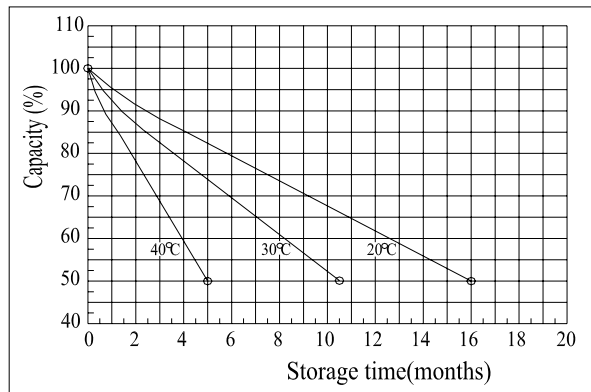
| F.V/TIME | 15min | 20min | 30min | 45min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V/cell | 438 | 350 | 248 | 185 | 151 | 85.5 | 62.0 | 49.9 | 43.6 | 24.7 | 13.1 |
| 1.65V/cell | 427 | 342 | 243 | 181 | 149 | 85.0 | 61.6 | 49.6 | 43.4 | 24.6 | 13.0 |
| 1.67V/cell | 425 | 336 | 240 | 179 | 147 | 84.7 | 61.4 | 49.5 | 43.2 | 24.6 | 13.0 |
| 1.70V/cell | 411 | 329 | 236 | 176 | 145 | 84.2 | 61.2 | 49.3 | 43.1 | 24.6 | 13.0 |
| 1.75V/cell | 397 | 318 | 230 | 171 | 142 | 83.0 | 60.8 | 48.9 | 42.8 | 24.4 | 12.9 |
| 1.80V/cell | 376 | 301 | 222 | 165 | 138 | 80.9 | 58.9 | 47.5 | 41.5 | 24.2 | 12.8 |

Note: The above characteristics data can be obtained within three charge/discharge cycles.

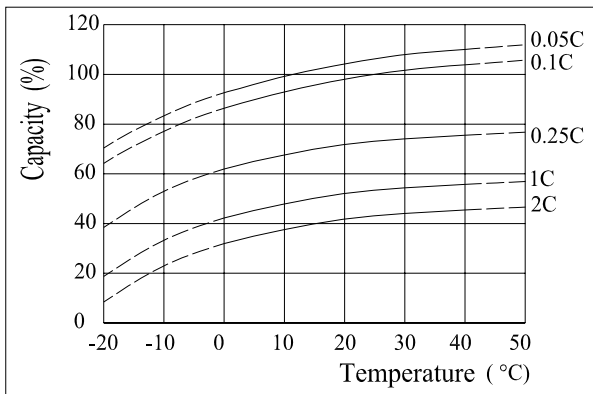
Discharge Characteristics(25°C)



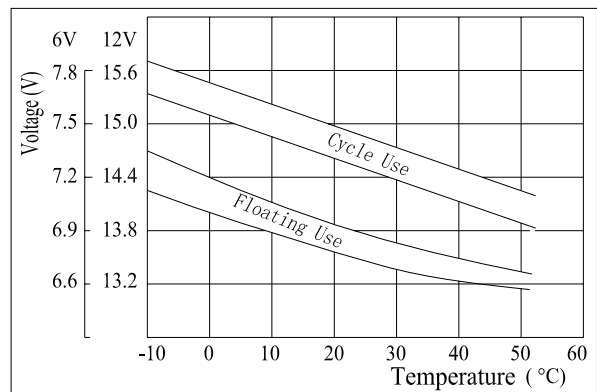
Self-discharge Characteristics



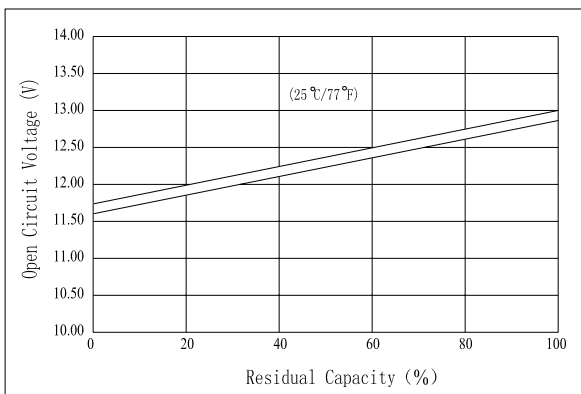
Effect of Temperature on Capacity



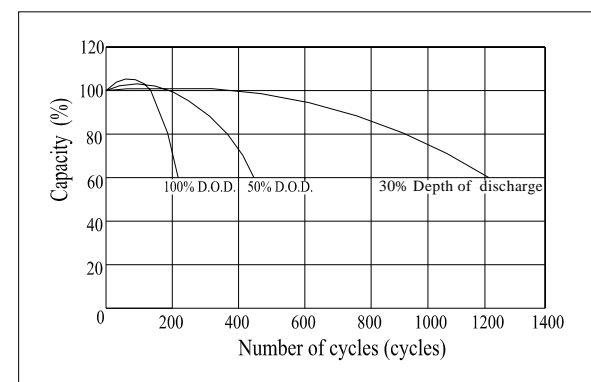
The Relationship for Charging Voltage and Temperature



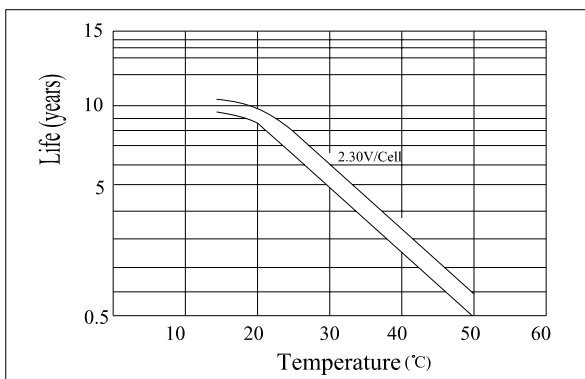
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Cycle Life on D.O.D(25°C)



Floating Life on Temperature



Charging Characteristics(25°C)