



Telecom/Power Backup Battery

6FM110FR (12V110Ah)

LONGWAY Telecom power backup battery series adopts front terminal design, which has the advantages of faster installation, saving floor space, long floating service design life, high energy density, leakage prevention and maintenance free. At the same time, the series of products designed standby life of 12 years. The products pass UL, CE, RoHS certification, and can be shipped by sea or air.



General Feature

- High reliability, safe without leakage. Maintenance free
- Thick plate, special formula paste process, with a long service life
- Environmentally friendly products
Meet EU battery directive RoHS and REACH standards
- The partition design protects the terminal from short circuit
- Widely applicable temperature range, can be used at -20°C~60°C
- Long Storage time. Battery with full state of charge under room temperature, after 6-12 months storage, it can be used & recovered (It is recommended to recharge after storage for 6 months or before use)

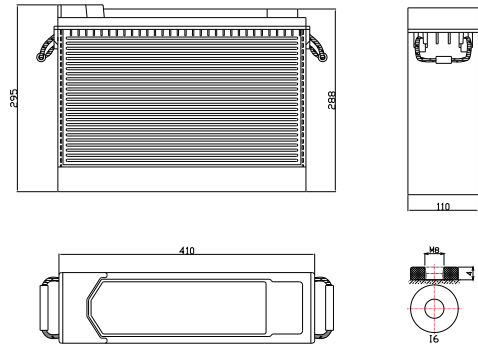
Applications

- Telecom systems
- UPS
- Power Backup
- Electric power system
- Communication base station
- Energy storage systems
- Solar systems

Performance

| | |
|-----------------------------|---|
| Nominal Voltage | 12V (6cell) |
| Capacity | @25°C |
| 20hr Rate (5.50A) | 115Ah @ to 1.75V/cell |
| 10hr Rate (11.0A) | 110Ah @ to 1.70V/cell |
| 3hr Rate (27.5A) | 82.5Ah@ to 1.60V/cell |
| Weight | Approx (33.5±3%)kg (73.9lbs) |
| Internal Resistance | Approx 4.30mΩ fully charged @25°C |
| Maximum Discharge Current | 500A(3sec) |
| Terminal | I6 |
| Operating Temperature Range | Discharge:-20°C~60°C; Charge:0°C~50°C Storage:-20°C~40°C |
| Container Material | ABS(UL94 HB)/UL94-V0 Optional |

Dimensions



| | | |
|--------------|-------|-----------|
| Length | 410mm | 16.14inch |
| Width | 110mm | 4.33inch |
| Height | 288mm | 11.34inch |
| Total height | 295mm | 11.61inch |

Battery use

Cycle use

- 1.Limit the initial charging current to no more than 27.5A
- 2.Keep charging voltage at14.40-15.00V/unit, and continue charging at least 3 hours after the charging current reduces to 2.2A toensure full charge
- 3.The compensation coefficient of charging voltage and temperature is -5mv/cell /°C

Float use

- 1.Limit the initial charging current to no more than 27.5A
2. Keep charging voltage at 13.50-13.80V/unit. When the voltage reaches the constant voltage the current gradually decreases until the battery is fully charged and continues to charge
- 3.The compensation coefficient of charging voltage and temperature is -3mv/cell /°C



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KY-IOP-FR12-110 B0. August 2023

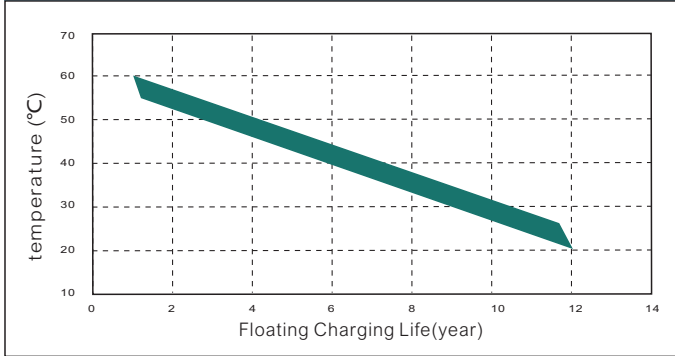
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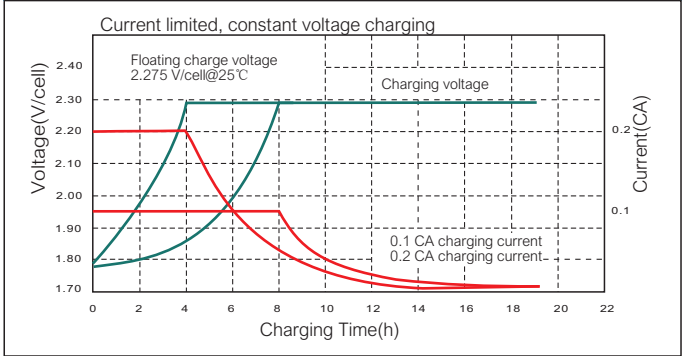
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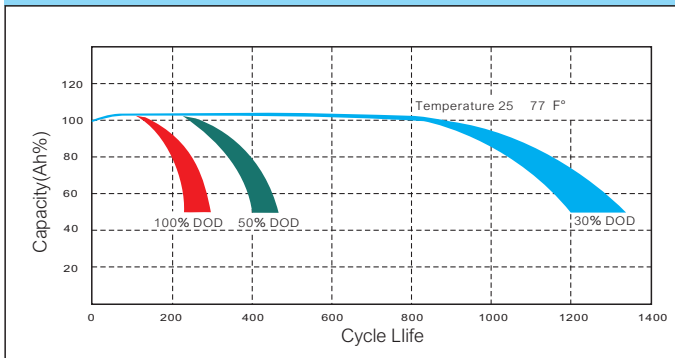
Floating Charging Life VS Temperature



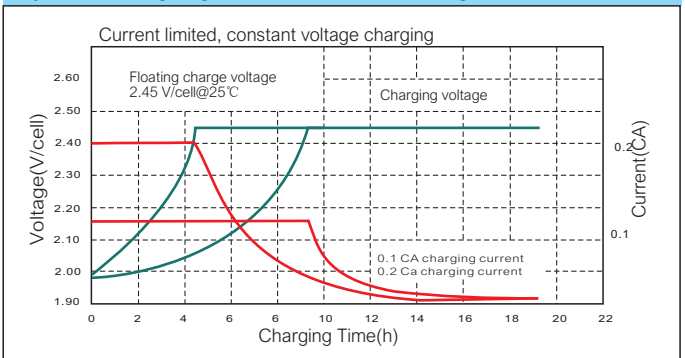
Floating Charging Characteristics Diagram



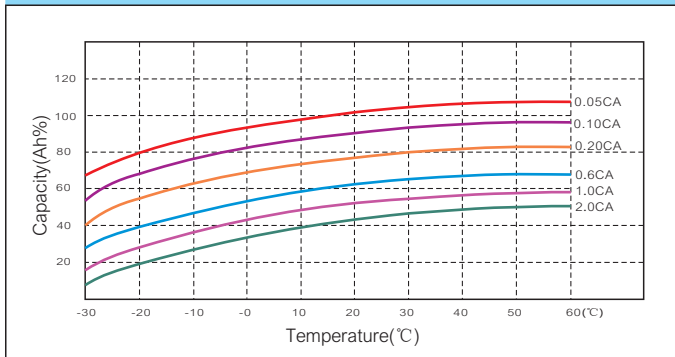
Cycle Life



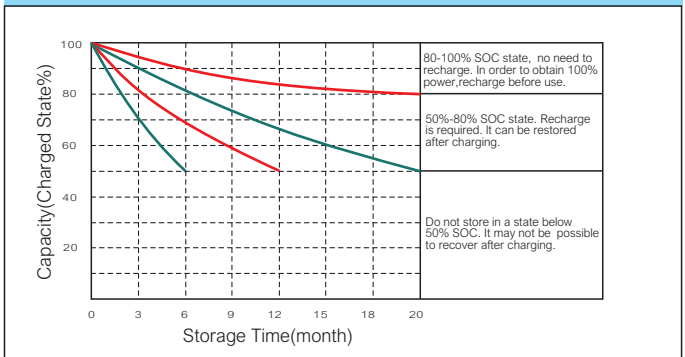
Cycle charging characteristic diagram



Temperature and capacity characteristics



Self-discharge characteristic



Constant current characteristics(A,25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 9.60 | 275.0 | 220.0 | 187.0 | 115.5 | 60.50 | 39.66 | 27.91 | 18.98 | 13.24 | 11.17 | 5.64 |
| 9.90 | 266.8 | 213.4 | 183.3 | 113.2 | 59.29 | 39.47 | 27.78 | 18.89 | 13.11 | 11.11 | 5.61 |
| 10.20 | 261.3 | 209.0 | 179.5 | 110.9 | 58.08 | 38.89 | 27.50 | 18.70 | 13.06 | 11.07 | 5.59 |
| 10.50 | 253.0 | 202.4 | 173.9 | 107.4 | 56.27 | 38.50 | 27.23 | 18.51 | 12.98 | 11.03 | 5.57 |
| 10.80 | 214.5 | 196.5 | 170.5 | 105.3 | 55.18 | 38.11 | 26.95 | 18.33 | 12.86 | 11.00 | 5.56 |

Constant power discharge characteristic (W,25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.60 | 2888 | 2376 | 2063 | 1317 | 700.6 | 459.3 | 328.3 | 224.3 | 158.9 | 133.3 | 67.66 |
| 9.90 | 2801 | 2305 | 2022 | 1290 | 675.9 | 457.0 | 326.6 | 223.2 | 157.3 | 132.7 | 67.33 |
| 10.20 | 2743 | 2257 | 1981 | 1264 | 662.1 | 450.3 | 323.4 | 221.0 | 156.7 | 132.1 | 67.06 |
| 10.50 | 2657 | 2186 | 1919 | 1225 | 641.4 | 445.8 | 320.2 | 218.8 | 155.8 | 131.7 | 66.83 |
| 10.80 | 2252 | 2122 | 1882 | 1201 | 629.0 | 441.3 | 316.9 | 216.6 | 153.8 | 131.3 | 66.66 |

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