

F.E. Model: FSBFE070- FE12-7D



FE12-7D is AGM Deep cycle battery, with 5 years floating design life, superiorly designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, it makes battery have 30% more cyclic life time than stand by series. It is applicable for solar energy system, golf cart, electric wheelchair, etc.

Specification

| | |
|--|---|
| Cell Number | 6 |
| Nominal Voltage | 12V |
| Weight(Approx.) | 2.18/4.81Kg/lbs |
| Dimension(L×W×H) | 151×65×93mm |
| Specific Energy | 38.5Wh/Kg |
| Capacity(25°C,77°F) | 20hr(0.35A,10.5V) 70AH 10hr(0.65A,10.5V) 6.5AH 5hr(1.18A,10.5V) 5.9AH |
| Internal Resistance(fully charged state) | 25mΩ |
| Maximum Charge Current | 2.1A |
| Short Circuit Current | 503A |
| Charge Voltage in Floating USE(Per cell) | 2.275V |
| Charge Voltage in Cycling USE(Per cell) | 2.45V |
| Design floating life | 5 year |
| Operating Temperature Range | -15°C ~+45°C |
| Terminal Type | SP—02 or SP—03 |
| Terminal Material | Cu(Tin coated) |

Constant Current Discharge Data (Amperes Per cell at 25°C, 77°F)

| End Voltage (V/cell) | Discharge Time(minutes) | | | | | | | | | | | | |
|-------------------------|-------------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 90 | 120 | 180 | 300 | 600 | 1200 |
| 1.60 | 27.24 | 17.54 | 13.52 | 10.88 | 7.94 | 5.83 | 4.50 | 3.18 | 2.47 | 1.79 | 1.28 | 0.69 | 0.38 |
| 1.65 | 26.36 | 17.25 | 13.33 | 10.86 | 7.84 | 5.67 | 4.42 | 3.11 | 2.44 | 1.78 | 1.23 | 0.67 | 0.37 |
| 1.70 | 25.77 | 16.86 | 12.94 | 10.49 | 7.74 | 5.58 | 4.34 | 2.96 | 2.41 | 1.76 | 1.20 | 0.66 | 0.36 |
| 1.75 | 24.60 | 16.17 | 12.54 | 10.29 | 7.55 | 5.44 | 4.29 | 2.82 | 2.37 | 1.73 | 1.18 | 0.65 | 0.35 |
| 1.80 | 22.74 | 14.99 | 11.66 | 9.70 | 7.15 | 5.24 | 4.14 | 2.78 | 2.33 | 1.68 | 1.11 | 0.64 | 0.34 |

Constant Current Discharge Data (Amperes Per cell at 25°C, 77°F)

| End Voltage (V/cell) | Discharge Time(minutes) | | | | | | | | | | | | |
|-------------------------|-------------------------|-----------|-----------|-----------|-----------|-------|------|------|-----------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 90 | 120 | 180 | 300 | 600 | 1200 |
| 1.60 | 41.0 2 | 28.4 0 | 24.2 4 | 18.9 8 | 14.3 7 | 10.74 | 8.64 | 6.51 | 4.87 8 | 3.566 | 2.354 | 1.362 | 0.791 |
| 1.65 | 39.9 7 | 28.1 0 | 24.0 0 | 18.8 8 | 14.2 7 | 10.65 | 8.49 | 6.36 | 4.84 8 | 3.556 | 2.344 | 1.352 | 0.781 |
| 1.70 | 39.6 7 | 27.5 5 | 23.6 9 | 18.6 8 | 14.1 7 | 10.49 | 8.44 | 6.24 | 4.80 8 | 3.526 | 2.324 | 1.342 | 0.771 |
| 1.75 | 38.4 1 | 26.7 4 | 21.7 9 | 18.2 8 | 13.9 2 | 10.14 | 8.26 | 5.99 | 4.69 8 | 3.456 | 2.304 | 1.332 | 0.761 |
| 1.80 | 35.7 6 | 25.0 9 | 20.5 3 | 17.1 6 | 13.2 7 | 9.77 | 8.51 | 5.86 | 4.58 8 | 3.366 | 2.264 | 1.322 | 0.751 |

