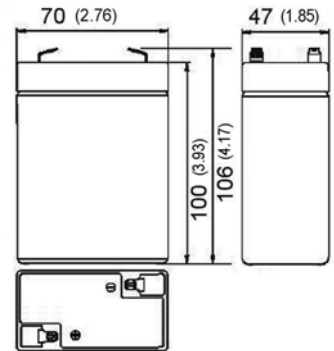


PERFORMANCE SPECIFICATION FOR BATTERY TYPE FG 10451

| | |
|---|--|
| Nominal Voltage | 6 Volts |
| Nominal Capacity | at 20 hour rate (225 mA to 5.25 Volts), 4.5 Ah at 10 hour rate (406 mA to 5.25 Volts) 4.06 Ah at 5 hour rate (736 mA to 5.1 Volts) 3.69 Ah at 1 hour rate (2.61 A to 4.5 Volts) 2.61 Ah |
| Dimensions (mm) | Length=70, Width=47, Height=100, TH=106 |
| Approximate weight | 0.725 kg |
| Energy Density | 66.39 Wh/l |
| Specific Energy | 24.83 Wh/kg |
| Internal Resistance (Fully charged battery) | 50 mΩ |
| Maximum discharge current in 5 seconds | 45 A |
| Recommended charging voltage (@20°C) | floating use: 6.75-6.9 V cyclic use: 7.2-7.5 V |
| Thermal compensation factor | floating use: -18mV/°C cyclic use: -30mV/°C |
| Maximum charging current | 1.12 A |
| Terminals | Flat lug type 4.8 mm |
| Torques | n.a. |
| Vibration Test | |
| - (2000 cycles/min, 2,55 mm excursion, 2 hrs) | No loss in capacity or performance |
| Shelf life - % of nominal capacity at 20°C | 1 Month 97% 3 months 91% 6 months 83% |
| Storage temperature | -20°C to 40°C |
| Operative temperature range | Charge 0°C to 40°C Discharge -20°C to 50°C |
| Case material | Acrylonitrile-Butadiene-Styrene Standard Case: according to UL-94 HB Also available: according to UL-94 VO |
| Life expectancy (Stand-by use) | 3 to 5 years according to Eurobat standards |

Dimensions mm (inch)



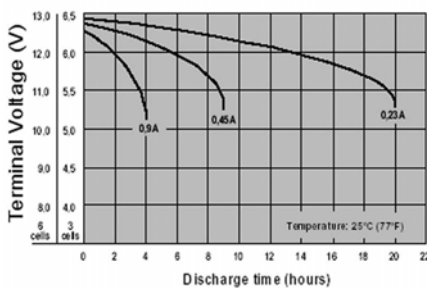
Constant Power Discharge Table (Watt)

| Time | 5' | 10' | 15' | 20' | 30' | 45' | 1h | 2h | 3h | 5h | 10h | 20h |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.8V/Cell | 21.5 | 16.6 | 13.8 | 12.0 | 9.07 | 6.63 | 5.39 | 2.96 | 2.15 | 1.41 | 0.80 | 0.44 |
| 1.75V/Cell | 23.6 | 17.7 | 14.6 | 12.1 | 9.15 | 6.72 | 5.47 | 3.07 | 2.23 | 1.47 | 0.81 | 0.45 |
| 1.7V/Cell | 25.2 | 19.1 | 15.2 | 12.7 | 9.49 | 6.80 | 5.55 | 3.15 | 2.30 | 1.51 | 0.82 | 0.45 |
| 1.65V/Cell | 26.9 | 20.1 | 15.6 | 12.9 | 9.61 | 6.89 | 5.60 | 3.20 | 2.33 | 1.55 | 0.83 | 0.46 |
| 1.6V/Cell | 28.1 | 20.6 | 15.8 | 13.0 | 9.66 | 6.97 | 5.64 | 3.24 | 2.36 | 1.57 | 0.83 | 0.46 |

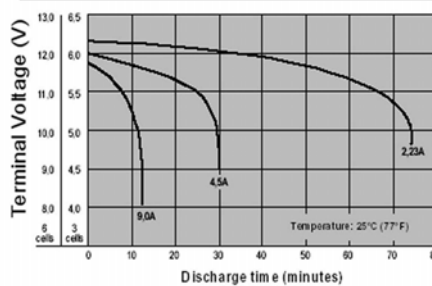
Constant Current Discharge Table (Ampere)

| Time | 5' | 10' | 15' | 20' | 30' | 45' | 1h | 2h | 3h | 5h | 10h | 20h |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.8V/Cell | 13.9 | 9.68 | 6.93 | 5.99 | 4.50 | 3.51 | 2.75 | 1.56 | 1.10 | 0.71 | 0.42 | 0.22 |
| 1.75V/Cell | 14.8 | 10.2 | 7.34 | 6.26 | 4.73 | 3.62 | 2.79 | 1.60 | 1.14 | 0.75 | 0.42 | 0.23 |
| 1.7V/Cell | 16.0 | 10.8 | 8.28 | 6.48 | 4.91 | 3.65 | 2.88 | 1.62 | 1.16 | 0.77 | 0.43 | 0.23 |
| 1.65V/Cell | 16.8 | 11.1 | 8.54 | 6.70 | 5.01 | 3.73 | 2.98 | 1.67 | 1.18 | 0.79 | 0.44 | 0.24 |
| 1.6V/Cell | 17.1 | 11.3 | 8.64 | 6.80 | 5.18 | 3.77 | 3.02 | 1.69 | 1.21 | 0.80 | 0.45 | 0.24 |

Discharge time vs. discharge current



Discharge time vs. discharge current



Terminal Type

