General Application

12VC4.5 is a general purpose battery with 3~5 years in standby service or more than 400 cycles at 50% depth of discharge in cycle service.

Unit Specification

- **Nominal Voltage**: 12 V
- **Nominal Capacity (20 hr)**: 4.5 Ah
- **Dimensions**
  - **Total Height**: 107 mm (4.21 inches)
  - **Container Height**: 101 mm (3.98 inches)
  - **Length**: 90 mm (3.54 inches)
  - **Width**: 70 mm (2.76 inches)
- **Net Weight (Unit)**: APPROX 1.55 Kg (3.42 lbs)
- **Container Material**: UL94HB ABS
- **Internal Resistance (25°C, 77°F)**: ~34mΩ
- **Discharge Capacity Under Different Temperatures**
  - 40°C: ~102%
  - 25°C: ~100%
  - 0°C: ~85%

Characteristics

- **Capacity 25°C / 77°F**
  - 20 hr @ 0.225 A: 4.5 Ah
  - 5 hr @ 0.72 A: 3.6 Ah
  - 1 hr @ 2.7 A: 2.7 Ah
  - 1 C @ 4.5 A: 2.25 Ah
- **Charging Voltage (25°C, 77°F)**
  - **Standby Use**: 13.65V±015 V
  - **Cycle Use**: 14.7V±0.3 V
- **Max Discharge Current**: 60A (5 sec)
- **Max Charging Current**: 1.35 A
- **Self-Discharge Residual Capacity (25°C, 77°F)**
  - After 3 Months: ~90%
  - After 6 Months: ~82%
  - After 12 Months: ~70%

Packaging and Weights

- **Case Lot Size**: 10pcs
- **Net Weight (Unit)**: 1.55Kg (3.42lbs)
- **Gross Weight (Case Size)**: 16.5Kg (36.38lbs)

Discharge Current vs Time

Discharge Characteristics @25°C (77°F)

Dimensions

- Dimensions: 90(3.54) mm (inch)
- **Terminal Voltage**: 13.5V~13.9V
- **Discharge Time**: 0.4A to 0.25A

Tolerances are +/-0.04 in. (+/-1mm) and +/-0.08 in. (+/-2mm) for height dimensions.

Terminal

- **Type**: FO-01
- **Type**: FO-02