

Model Name: [KNB-45L](#)

Title	Li-Ion BATTERY PACK
Model Name	KNB-45L

This product is an optional Li-Ion battery for the TK-2302/3302, TK-2312/3312 and TK-3301 portable radio

- Capacity 2000mAh (typical)
- Cell Li-Ion cell, 2pcs
- Nominal Voltage 7.4V (3.7V x 2)
- External dimensions and weight
  - Width 54.0 mm
  - Depth 17.7 mm
  - Height 114.7 mm
  - Weight approx 120 g
  - (Dimensions including protrusions)
- Storage temperature range
  - Less than 1 month -20 to +60°C
  - Less than 3 month -20 to +45°C
  - Less than 1 year -20 to +20°C
- Operating temperature range
  - Discharge -10°C to +60°C
  - Charge start 0°C to +40°C
  - Under charge 0°C to +60°C
- MIL Blowing Rain are satisfied while having attached with the TK-2302/3302, TK-2312/3312 and TK-3301.
- IP-54 and 55 are satisfied while having attached with the TK-2302/3302, TK-2312/3312 and TK-3301.
- Charge/Discharge Cycles
  - Capacity must have more than 60% after 500 times (perfect charge and discharge)
  - Capacity must have about 70% at -10°C as compared with normal temperature
- Percentage of recoverable capacity 80%
  - Percentage of recoverable capacity = (Discharging time after storage / Initial discharging time) x 100 (0.2C discharging E.V. = 5.5V)
- Built-in protection circuit for safety-conscious
  - Over current protection
  - Over charge protection
  - Over discharge protection
  - Resistance thermometer (Thermistor)