

## Battery-Pack Specification Checklist

### Battery-Pack Specification Checklist

Fill in the blanks below to determine specifications when making inquiries or when ordering batteries.

#### 1. Battery-Pack: General

- 1) Schedule: (1) Completion of design evaluation: Month: \_\_\_\_ Year: \_\_\_\_  
(2) Completion of mass production evaluation: Month: \_\_\_\_ Year: \_\_\_\_  
(3) Start of delivery: Month: \_\_\_\_ Year: \_\_\_\_
- 2) Number of units: \_\_\_\_ k packs per month (Total volume: \_\_\_\_ k packs)
- 3) Delivery Destination: (1) Domestic (2) Overseas (Name of country: \_\_\_\_\_)
- 4) Operating Temperature: (1) Standard (where the standard is 0°C to 45°C)  
(2) Custom (\_\_\_\_ °C to \_\_\_\_ °C)
- 5) Ambient Humidity: (1) Standard (where standard is 45 to 85%, non-condensing)  
(2) Custom (\_\_\_\_ % to \_\_\_\_ %)
- 6) Special Conditions for Use: (1) No (2) Yes ((1) Automotive (2) Outdoors (3) Other (\_\_\_\_\_))
- 7) Applicable Specifications: (1) Electrical Appliance and Material Safety Law (2) UL (3) Other (\_\_\_\_\_)
- 8) Applicable Recipient: (1) Customer (2) Panasonic (3) Other (\_\_\_\_\_)
- 9) Application: (1) Portable telephone (2) AV equipment (\_\_\_\_\_)  
(3) Personal computer (4) Other (\_\_\_\_\_)
- 10) FG (Fuel Gauge) (1) Required (2) Not required (if required, fill in item 3)

#### 2. Battery-Pack Basic Specifications

- 1) Battery-Pack Configuration: (1) Hard case (2) Soft pack (3) Other (\_\_\_\_\_)
- 2) Battery-Pack Materials: Specify (\_\_\_\_\_)
- 3) Battery & Structure Used: Please see P.33-34  
(\_\_\_\_ P x \_\_\_\_ S)
- 4) Rated Capacity: \_\_\_\_ mAh
- 5) Charging Method: (1) Fast (2) Standard (3) Other (\_\_\_\_\_)
- 6) Charge Current: \_\_\_\_ A
- 7) Charge Time: \_\_\_\_ hours
- 8) Discharge Ending Voltage: \_\_\_\_ V
- 9) Thermistor: (1) Standard (Present/Absent) (Standard: 10 K $\Omega$ , 25°C) (2) Other (\_\_\_\_\_)
- 10) Drop Strength: (1) Present (\_\_\_\_ cm) (2) Absent
- 11) Flame Retardants Requirements: (1) Present (\_\_\_\_) (2) Absent
- 12) Dimensions: \_\_\_\_ width x \_\_\_\_ length x \_\_\_\_ height mm or less
- 13) Weight: \_\_\_\_ g or less
- 14) Label: (1) Not required (2) Required (Details of label specified elsewhere.)
- 15) Terminal Configuration: (\_\_\_\_\_)

#### 3. Fuel Gauge Specifications

- 1) Range of load currents: (\_\_\_\_ mA to \_\_\_\_ mA)
- 2) Load current waveform: (1) Wave height \_\_\_\_ mA (2) Conductive period \_\_\_\_ mSec  
(3) Stop period \_\_\_\_ mSec
- 3) Accuracy: (1)  $\pm 10\%$  (2)  $\pm 5\%$  (3) Other (\_\_\_\_\_)
- 4) Display method: (1) LED (2) Communications  
(3) LED and communications (communications method \_\_\_\_\_)
- 5) Mode change (1) Not required (2) Required (Modes (suspend, etc.) (1) \_\_\_\_ (2) \_\_\_\_\_)
- 6) Communications data: (1) Remainder (2) Voltage (3) Current (4) Temperature  
(5) ID code (6) Other (\_\_\_\_\_)
- 7) Charge function (1) Not required (2) Required

## Charger Specification Checklist

### Charger Specification Checklist

Fill in the blanks below to determine specifications when making inquiries or when ordering.

#### 1. General

- 1) Start of Delivery: Month: \_\_\_\_ Year: \_\_\_\_ Number of units: \_\_\_\_ per month  
(Total volume: \_\_\_\_\_ units)
- 2) Delivery Destination: (1) Domestic (2) Overseas (Name of country: \_\_\_\_\_)
- 3) Operating Temperature: (1) Standard (where standard is 0°C to 45°C)  
(2) Custom (\_\_\_\_ °C to \_\_\_\_ °C)
- 4) Ambient Humidity: (1) Standard (where standard is 45 to 85%, non-condensing)  
(2) Custom (\_\_\_\_ % to \_\_\_\_ %)
- 5) Special Conditions for Use: (1) No (2) Yes ((1) Automotive (2) Outdoors (3) Other (\_\_\_\_\_))
- 6) Applicable Specifications: (1) Electrical Appliance and Material Safety Law (2) UL (3) Other (\_\_\_\_\_)
- 7) Applicable Recipient: (1) Customer (2) Panasonic (3) Other (\_\_\_\_\_)
- 8) Application: (1) Portable telephone (2) AV equipment (\_\_\_\_\_)  
(3) Personal computer (4) Other (\_\_\_\_\_)

#### 2. Basic Specifications

- 1) Battery-Pack Compatibility: Please see P.33-34  
(\_\_\_\_ P x \_\_\_\_ S)
- 2) Charging Method: (1) Fast (2) Standard (3) Other (\_\_\_\_\_)
- 3) Charge Current: \_\_\_\_ A (Consult Panasonic regarding charging conditions.)
- 4) Charge Time: \_\_\_\_ hours
- 5) Charger Model: (1) Pocket type (2) 1 Unit (3) 2 Units (4) Other (\_\_\_\_\_)
- 6) Display LED: No. of Units: \_\_\_\_\_
- 7) Power Supply Voltage: \_\_\_\_ V/ \_\_\_\_ Hz (Range of Fluctuation: \_\_\_\_ V to \_\_\_\_ V/ \_\_\_\_ Hz to \_\_\_\_ Hz)
- 8) Drop strength: \_\_\_\_ cm
- 9) Dimensions: \_\_\_\_ width x \_\_\_\_ length x \_\_\_\_ height mm or less
- 10) Weight: \_\_\_\_ g or less
- 11) Label: (1) Not required (2) Required (Details of label \_\_\_\_\_)