

Quick Charger QC-10KN Operation Manual

Thank you for buying the QC-10KN Quick Charger. Before using the QC-10KN, be sure to thoroughly read this manual to ensure correct use.

Also, keep this manual in a safe place so that it can be referred to whenever necessary.



- 1 -

SIBATA SCIENTIFIC TECHNOLOGY LTD.



1-1-62, Nakane, Soka, Saitama, 340-0005, Japan
TEL:+81-48-933-1582 FAX:+81-48-933-1591

E-mail:overseas@sibata.co.jp

<http://www.sibata.co.jp/english/>

Safety Precautions

The precautionary information that appears in this manual is for ensuring that the product is used safely and for preventing injury to you and other people and damage to equipment.

It is all important for ensuring safety and so be sure to read it thoroughly before using the product and observe it during use.

Warning Indications

DANGER: Impending danger is expected that might result in death or serious injury.



WARNING: There is an expected risk that might result in death or serious injury.

CAUTION: There is an expected risk of moderate injury or property damage.

- 2 -

DANGER

Misuse might cause electric shock, generation of heat, fire, or rupturing, which will result in burns, serious injury or blindness.

- Never use this product for other than the LI-10N/LI-10KN, MP-ΣN/MP-ΣN II/MP-ΣKN II series.
- Never connect an AC adapter other than the exclusive AC adapter (UNI345-1238) (provided) to the product.
- Do not disassemble or modify the QC-10KN and UNI345-1238.
- Do not insert metal objects inside the product body.
- Do not leave the product near infants.
- Do not immerse the product in water or allow it to get wet.
- If you notice heat generation or abnormal odors, immediately disconnect the plug from the AC power outlet.
- Do not place heavy objects on the QC-10KN or UNI345-1238, or subject them to dropping or other impact.

- 3 -

WARNING

Misuse might cause electric shock, generation of heat, fire, or rupturing, which will result in burns, injury or blindness.

- Connect connectors correctly.
- Insert each of the connectors firmly as far as possible.
- When connecting or disconnecting the LI-10N/LI-10KN or MP-ΣN/MP-ΣN II/MP-ΣKN II series, be sure to do so by holding the connector.
- Do not use the product near objects that generate heat or block heat discharge.
- Do not connect to an electric type transformer.
- Do not charge a short-circuited LI-10N/LI-10KN.

- 4 -

CAUTION

Misuse might cause moderate injury or property damage.

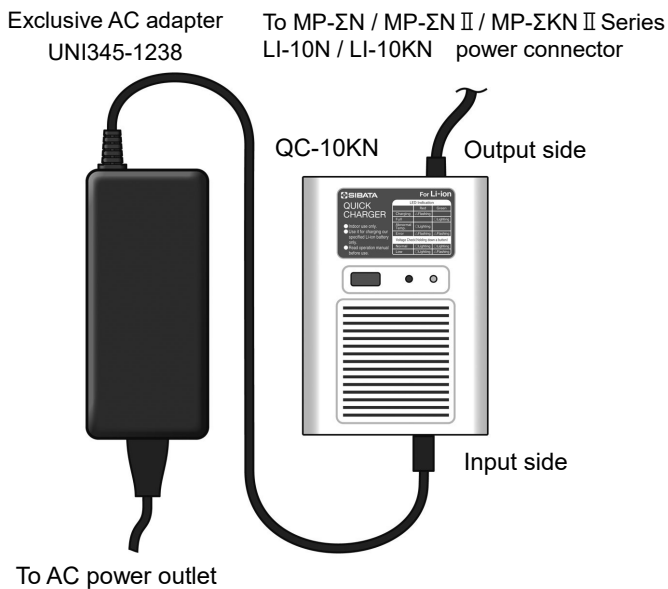
- Only charge in a room of 0 to 40°C.
- Do not charge or store in humid or dusty locations.
- When not charging, be sure to disconnect the UNI345-1238 from the AC power outlet.

- 5 -

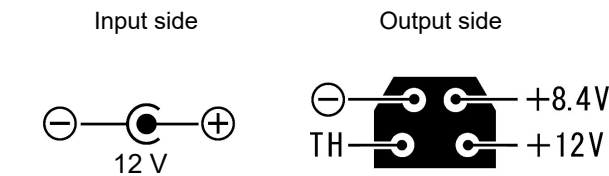
Features

- Can charge the LI-10N/LI-10KN Battery exclusively for the MP-ΣN/MP-ΣN II / MP-ΣKN II series.
- Can supply power for the MP-ΣN/MP-ΣN II / MP-ΣKN II series while charging the LI-10N/LI-10KN.
- Built-in micro-computer to enhance anti-overcharging and anti-overheating functions.
- Simple battery voltage check is possible.
- The battery temperature is detected to charge at the appropriate temperature (0 to 40°C).
- Compliant with RoHS directives.

Connection Drawings



Connector Specifications



LED Display

During Charging			Simple Voltage Check		
	Red	Green		Red	Green
Charging	△Flashing		Normal voltage	○ Lighting	○ Lighting
Charging completed		○ Lighting	Low voltage	○ Lighting	△Flashing
Temperature standing by	○ Lighting				
Error	△Flashing	△Flashing			

Handling Method

- (1) When connected as shown in the figure on the left, charging is started and the red LED flashes. When charging is completed, the red LED stops flashing and the green LED lights up.
 - When connected with the LI-10N/LI-10KN installed on the MP-ΣN / MP-ΣN II / MP-ΣKN II series, the LI-10N / LI-10KN can be charged and the QC-10KN can be used as the a power source to drive the MP-ΣN/MP-ΣN II / MP-ΣKN II series.
 - The QC-10KN only charges when connected directly to the charging connector on the LI-10N/LI-10KN.
- (2) When QC-10KN is connected and the red LED lights up, it is in a state where charging cannot be performed because the battery temperature at the start of charging is outside the charging temperature range (0 to 40°C). In this case, as soon as it enters the charging optimum temperature range, the red LED starts to flash and the charging starts automatically.
 - The display that the red LED lights up is displayed only when the battery temperature is out of the charging temperature range when QC-10 KN is connected.

- When the battery temperature falls outside the charging optimum temperature range during charging, the red LED is flashing continues but charging is interrupted.

- (3) When both red and green LEDs are flashing, an error has occurred. If the cause of the error is unknown, contact your Sibata agent.
- (4) The simple battery voltage check can be performed by pressing the button on the left of the LEDs. When both red and green LEDs light after pressing the button, the voltage is 8.2 V or more, and you can judge that the battery is about 80% charged. When the red LED is lit and the green LED is flashing, the voltage is less than 8.2 V, which means that the battery must be charged.
 - In a fully charged state (with the green LED lights up), this function cannot be used.

Specifications

Item code	090860-110
Model	QC-10KN
Input voltage range	12 VDC (UNI345-1238 must be used)
Output voltage range	8.4 VDC (1.8 A), 12 VDC (1 A)
Operating temperature range	0 to 40°C
External dimensions	85 (W) × 120 (D) × 29 (H) mm
Weight	Approx. 150 g
Compliant with RoHS directives	

Exclusive AC adapter UNI345-1238

Input voltage	100 to 240 VAC 50/60 Hz
Output voltage	12 VDC (3.8 A)
External dimensions	47 (W) × 99 (D) × 32 (H) mm
Weight	Approx. 184 g
Standards	KC, PSE, UL, CE
Compliant with RoHS directives	