

MULTIFUNCTION CHARGER

Approval Sheet of Product

For AA/AAA Ni-MH Rechargeable Battery Charger And Travel Adaptor

MODEL : UP-MC636

Approved By Customer

APPROVED BY	CHECKED BY	PREPARED BY
<i>Mr. Yeh</i>	<i>Willie Lee</i>	<i>Johnson You</i>

Contents

1.Contents P2

2.Travel Adaptor Specification P3~P4

3.Ni-HM Rechargeable Battery Charger Specification..... P5

4 .Drawing P6

1:Travel Adaptor Specification

1.1. Summary

This ADAPTOR convert **AC to DC** and supplies a stable series constant voltage and current.

- An application : **ALL-PURPOSE RTC-675**
- Composition : This is a switching mode power supply

1.2. Electrical Test Specification

1.2.1 Input Voltage

- 1.2.1.1 AC Input Voltage range : **100V~240V**
- 1.2.1.2 AC Input Current : **0.3A Max**
- 1.2.1.3 Frequency Range : **50~60Hz**

1.2.2 Output

- 1.2.2.1 Travel Adaptor
 - 1.2.2.1 .1)Output Voltage :Dc **5.25V±0.25**
 - 1.2.2.1 .2)Output Current :**600MA ±50**
- 1.2.2.2 Battery Charger
 - 1.2.2.2 .1)Output Voltage: **DC2.37V±0.02**
 - 1.2.2.2 .2)Output Current: **280MA±60MA**

1.2.3 Line Regulation

Output Voltage must be within **5.25V±0.25V**& Output Current **600MA±50MA**while input voltage is **100~240VAC**.

1.2.4 Ripple & Noise

- Ripple & Noise : within **300mVp-p** Max.
- Condition : Use resistor Mode Load and measures by Scope using 20MHz band wide in input **100V~240VAC** and output **600MA±50MA**
(This measures after connecting 22uF Electrolytic Capacitor)

1.2.5 Inrush current limit

The input voltage **230VAC** Peak pulse current must be less than **20A** Peak **10MSEL**

1.2.6 Efficiency

- Efficiency : More than **50%**
- Condition : Rated input **220VAC**, Output **600MA**

1.3. Safety Test Specification

1.3.1 Insulation Resistor

- Test condition : **500VDC**.
- 1) Primary input and output : **≥7MΩ**.
- 2) Primary input and housing: **≥7MΩ**.
- 3) Output and housing: **≥2MΩ**.

1:Travel Adaptor Specification

1.1. Summary

This ADAPTOR convert **AC to DC** and supplies a stable series constant voltage and current.

- An application : **ALL-PURPOSE RTC-675**
- Composition : This is a switching mode power supply

1.2. Electrical Test Specification

1.2.1 Input Voltage

- 1.2.1.1 AC Input Voltage range : **100V~240V**
- 1.2.1.2 AC Input Current : **0.3A Max**
- 1.2.1.3 Frequency Range : **50~60Hz**

1.2.2 Output

- 1.2.2.1 Travel Adaptor
 - 1.2.2.1 .1)Output Voltage :Dc **5.25V±0.25**
 - 1.2.2.1 .2)Output Current :**600MA ±50**
- 1.2.2.2 Battery Charger
 - 1.2.2.2 .1)Output Voltage: **DC2.37V±0.02**
 - 1.2.2.2 .2)Output Current: **280MA±60MA**

1.2.3 Line Regulation

Output Voltage must be within **5.25V±0.25V**& Output Current **600MA±50MA**while input voltage is **100~240VAC**.

1.2.4 Ripple & Noise

- Ripple & Noise : within **300mVp-p** Max.
- Condition : Use resistor Mode Load and measures by Scope using 20MHz band wide in input **100V~240VAC** and output **600MA±50MA**
(This measures after connecting 22uF Electrolytic Capacitor)

1.2.5 Inrush current limit

The input voltage **230VAC** Peak pulse current must be less than **20A** Peak **10MSEL**

1.2.6 Efficiency

- Efficiency : More than **50%**
- Condition : Rated input **220VAC**, Output **600MA**

1.3. Safety Test Specification

1.3.1 Insulation Resistor

- Test condition : **500VDC**.
- 1) Primary input and output : **≥7MΩ**.
- 2) Primary input and housing: **≥7MΩ**.
- 3) Output and housing: **≥2MΩ**.

1: *Travel Adaptor Specification*

1.3.2 Electric Strength

- 1) The primary input and output and Primary input and housing must endure :
3750VAC, 50Hz, 10mA, 60sec.
- 2) The output and housing must endure : **500VAC, 50Hz, 10mA, 60sec,**
·After testing no wallop

1.4 Acclimatization Test Specification

1.4.1 High temperature Test

- Test temperature : **65°C ± 2°C**
- Test time : **8 hours.**

1.4.2 Low temperature Test

- Test temperature : **-20°C ± 3°C**
- Test time : **8 hours.**

1.4.3 Constant temperature and humidity Test

- Test condition :
 - 1) Temperature : **40°C ± 2°C**
 - 2) Humidity : **90%~95%**
- Test total time : **48 hours.**

1.4.4 Quiver Test

- Frequency : **10 ~ 55Hz.**
- Amplitude : **0.35mm**
- Period of test : After testing for **10** times in each direction,
there must not Exist screw losing, component falling and noise, etc.

1.4.5 Freeness dropping Test

- Height : **300 mm**
- The number of times : **2 times.**
- The board : An hard board with the thickness of **20mm.**
After testing, no damaged or deformed found.

1.4.6 Operation temperature Range : 0 ~ 45°C

1.4.7 Storage temperature Range : -20 ~ 65°C

1.4.8 Relative humidity Range : ≤93% [(40±2) °C]

1.4.9 Atmospheric pressure : 70 ~ 106 KPa

2:NI-MH RECHARGEABLE BATTERY CHARGER SPECIFICATION

2.1 CHARGE FUNCTION

2.1.1 Indicate

2.1.1.1 When Power ON: green LED is ON

2.1.1.2 When Battery insert and Charging: Orange LED is ON

2.1.1.2 When Battery insert and Charging: Orange LED is ON

2.1.2 Working Pattern

2.1.2.1 This product can charge Ni-MH batteries of AA&AAA Sizes

2.1.2.2 Charging type:Single to four

2.1.3 Charging Period

Size	Capacity MA/H	Charging time hr.
AA	1200	About 8 hr.
AAA	600	About 4 hr.

2.2 Electric Specification

2.2.1 Power Supply :Like Travel adaptor

2.2.2 Charge Current: **280MA±60 each channel**

2.3.3 Charge Voltage :**2.37V±0.02V**

2.3.4 Trickle Charge: **100MA±60 each channel**



