

# OPERATION MANUAL

## For Model: HDT100

### Step-Down Transformer

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Thank you very much for your employing our Step-Down Transformer Model: HD100. Firstly, read this manual and “Importance for safety and correct operation” thoroughly before using. You should keep this manual carefully always so that you can read it whenever necessary. It is desperately required to observe the following description of “IMPORTANCE FOR SAFETY AND CORRECT OPERATION”.

#### ***(IMPORTANCE FOR SAFETY AND CORRECT OPERATION)***

#### **WARNING**

- Never use this transformer for such control devices as the instruments used for medical, aerospace, trains, nuclear power system, which may cause danger against people's physical body and life. (You can use Japanese standardized electric equipments abroad by employing this step-down transformer.)
- You should thoroughly read this manual before connecting and supplying power to make sure if the working condition is matching the specifications. If you find something unclear, inquire us before supplying power.
- Never tamper, modify, or repair this transformer on your end. Incorrect modification and repair may cause electric shock, damage, fire, malfunction and other serious troubles.
- Be sure to install the transformer to avoid direct personal contact while operating. The transformer can hold partly high heat/voltage when power is supplied and just after use to cause danger of burning and electric shock.
- Keep the AC-plug for connecting into the power-outlet socket always free from dust or any foreign matters to prevent tracking fire or technical trouble.
- Put off the power switch of the joined equipment when connecting with the power-output socket to avoid electric-shock or technical trouble.

#### **ATTENTION**

- Make sure to use the rated input power voltage before supplying power. Otherwise, such troubles as burn-out of AC-line fuse, smoking or fire can happen.
- Don't touch or tamper inside of the transformer, and don't permit any foreign matters such as clips and screws, etc stay inside to avoid accidents or technical troubles.
- Keep recommended environmental temperature by all means. Otherwise, inside temperature goes up to cause technical troubles.
- When some trouble or irregularity occurs while operating, shut off power supply source immediately, and consult us.
- Don't use this transformer on the working place suffering excessive shock or vibration. Necessary to avoid technical trouble.
- Use a proper fuse of rated capacity. When replacing the fuse, shut off the power supply source first to avoid fire, electric shock or technical trouble.
- Don't dip this transformer into water, and don't touch this unit with wet hands. Necessary to avoid technical trouble of electric shock.
- Make sure to hold the power plug, but not the cord when plugging in and out.
- Avoid multiple outlet extension plug which shall cause over heat and fire.
- Don't use the transformer under the following conditions.
  - ① In the place exposed by direct rays of the sun, near heating equipments and where temperature can excessively goes up.
  - ② In the place where powdered iron, oil, chemicals and/or hydrogen sulfide can be splashed over.
  - ③ In such high humid place as basements and greenhouses.
  - ④ In freezing rooms, supply outlet of coolers and places of excessively low temperature.
  - ⑤ In the place near flammable articles.

## ☆ NOTES for OPERATION

### (1) Features

- This Step-Down type transformer is requested to be used in combination with our standard transformer: HTR30N-100V for Japanese 100V standardized power tools when operated in 220V~240V standardized overseas countries
- The max. Applicable electric power is 30W.  
Input voltage: 220~240V (AC Code type: A-type Plug)  
Output voltage: 100V (3P-type plug: Rated capacity 30W)  
(Note) Ground or earth wire is not attached..

### (2) Specifications

Rated primary input voltage: AC220~240V  
Rated frequency: 50/60Hz  
Output capacity: AC100V 0.3A  
Rated capacity: 30W  
Rated fuse:  $\Phi$ 6.4 x 30L (Tube type fuse)  
Applicable temperature: 0° C ~ +85° C  
Applicable humidity: 20~90%RH  
Permissible environmental temperature for storage: -30~+85 ° C  
Permissible environmental humidity: 20~90%RH  
Dimensions: 82 (W)x 105 (L) x 82 (H)  
Length of power code: 1.85m  
Weight: 945g

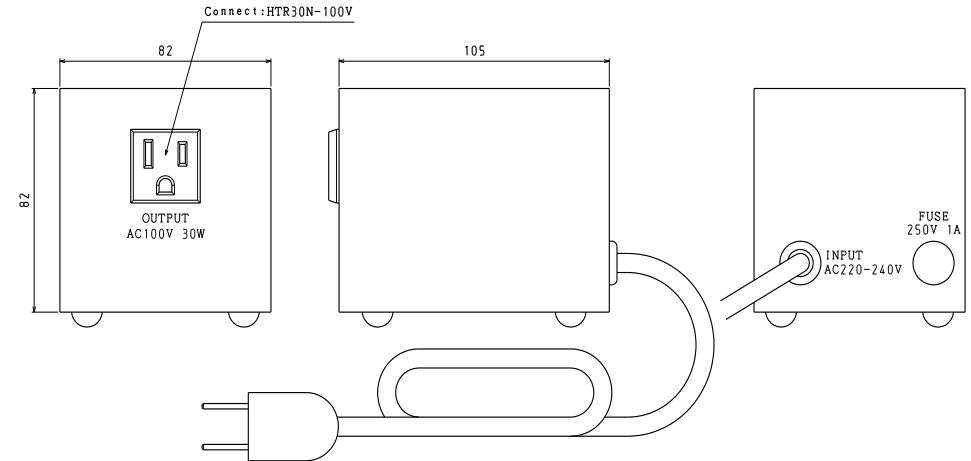
### (3) Self-Protection system

Fuse is burned out when over current occurs due to over-load or short circuit.

### (4) Attention for safe operation

- Excessive long operation under over-loaded and burned-out short-circuit condition shall damages inside parts.
- When the connected equipment does not operate, make sure if the currency is shut off by self-protection system.
- Burned-out of the installed fuse may be caused by malfunction of the inside circuit. Ask your supplier or us for repair.
- Dangerous!! Never open or dismantle the body housings by yourselves.

### (5) External View



### (6) Maintenance and Inspection

When some irregularity is found with this transformer, contact the supplier or us immediately for inspection and repair. We shall not be liable at all for any trouble with the transformer which is tampered, abused, modified, misused, misapplication or improper installation.

**(Specifications are subject to change without any notice and obligation on the part of the manufacturer)**

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