

Example: DC Power Supply Unit

Structure , Material and function of a testing sample

1 . Outline of structure

(The detailed description about the model name of your product intended for testing and its function, structure and operation is required here.)

This product is a DC power supply (model name: ABC-1234P) used to supply direct current electric power to IT equipment such as small personal computers.

The equipment comprises an AC inlet (3P), a switching transformer, a printed circuit board, an output cord, an output jack, and other components. The Components are installed in a plastic case.

The primary side comprises a circuit for prevention of electromagnetic interference, a rectification circuit and a switching circuit. The secondary side of a switching circuit comprises a ripple-free rectification circuit, an over current protection circuit and other components.

Circuit protection elements include a current fuse (125V, 2A) on the input side of printed circuit board, which serves to interrupt the over current in the event of a failure of the electronic circuits.

2 . Functions or Electric rate

(The description about the rated voltage, frequency and power input is required here.)

Rated input voltage	1 00V	Rated input capacity	3 5VA
Rated frequency	50Hz - 60Hz	Rated output voltage	1 2V
Rated secondary current	2A		

3 . Material

(The detailed description about the surface material and the material of the coil and the insulation built in transformer and electric motor-operated appliances is required here.)

Materials of enclosure	Polycarbonate and ABS resin
Transformer	
Core	Ferrite
Bobbin	Phenol resin
Primary winding	Polyurethane copper wire
Secondary winding	Three-layer insulated wire (first and second layers: polyethylene terephthalate; third layer: polyamide)
Insulating tape	Polyethylene terephthalate
Rectifier	Silicone

4 . Technical information

(Composed component list , circuit diagram , drawing or photo etc are required.)

Necessary technical information is in the attached documentation including a list of components and a circuit diagram.