

## 1. Product Characteristics:

### 1.1 General Description

Model DTS120420UTC-P5P-SZ is a universal switching-mode power supply, operating at

input voltage 90VAC to 264VAC and output voltage of 12VDC with 4.2A DC load

### 1.2 Electric Characteristics

#### 1.2.1 Input

| NO | ITEM                          | SPECIFICATION                 |
|----|-------------------------------|-------------------------------|
| 1  | Rated input Voltage           | AC100V-240V                   |
|    | Vibration input Voltage Range | AC90V-264V                    |
| 2  | Frequency Rated               | 50-60Hz                       |
|    | Frequency Vibration           | 47-63Hz                       |
| 3  | Input Rated Current           | 1.2A RMS Max                  |
|    | Inrush Current                | 30A Max .at 115vac cool start |
|    |                               | 50A Max. at 230vac cool start |
| 4  | Leakage current               | 3.5mA                         |
| 5  | Efficiency                    | 70% Min                       |

### 1.2.2 Output:

| No | ITEM                     | SPECIFICATION                     |
|----|--------------------------|-----------------------------------|
| 1  | *output Voltage          | +12VDC                            |
| 2  | *output max. current     | 4.2A                              |
| 3  | output min. Current      | 0A                                |
| 4  | Line regulation          | $\pm 1\%$                         |
| 5  | Load regulation          | $\pm 5\%$                         |
| 6  | Over voltage protection  | 15V to 18V ( output shut down)    |
| 7  | Short circuit protection | Output shut down and auto restart |
| 8  | Ripple Voltage (L.F.)    | 120mV(p-p) (100V-240VAC Input)    |

### 1.2.3 HI-POT SPECIFICATION

Input to output : 1500VAC OR 2121VDC 10mA 1 minute.

### 1.2.4 Insulation resistance:

Input to output: 500vdc to test the input to output resistance not be less

100M ohm

### 1.2.5 Safety approved: UL,CUL,ITS/GS,CE

### 1.2.6 EMI standard : meet FCC class B , CE ,VCCI – II

### 1.3 Mechanical Characteristics:

1.3.1 AC Plug : INLET IEC320 3PIN Type.

1.3.2 DC cord:

(1) Bending test: Life 1000 times 100% guarantee. Swings 120 from

Left to right loading weight 500g , 40 cycle/minute.

(2) Pull test : DC cord and plug ,weight 6kg for 1 minute.

1.3.3 Cord length and output plug: See Reference Att.4

1.3.4 Weight : 491 g

1.3.5 Case Size: 108.1X66X36.1mm

1.3.6 Normal operating temperature and humidity

1.3.7 Temperature

Operating: 0°C to 40°C

Storage: -10°C to 70°C

1.3.8 Humidity

Operating: 20% to 80%

Storage: 10% to 90%



