

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard: SMR10-48S75S

| Plot    |          |         | The Label              |
|---------|----------|---------|------------------------|
| Drawing | Auditing | Approve | Stamp, please! Thanks! |
|         |          |         |                        |
| Date:   |          |         |                        |

**Guangdong Dapu Telecom Technology Co.,Ltd**

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

TEL: 0086-0769-88010888 FAX: 0086-0769-81800098



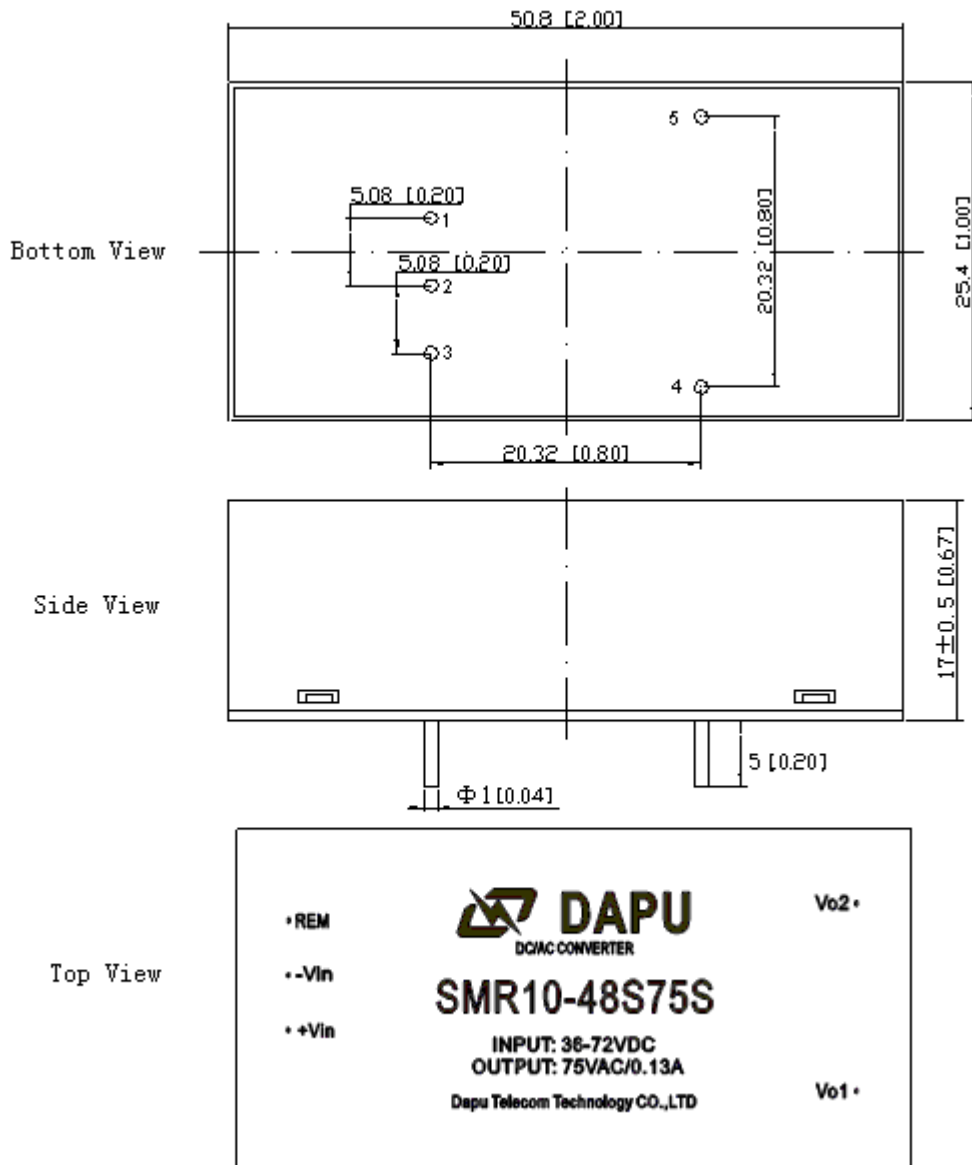
## 1、 Electrical Parameters

**MODEL: SMR10-48S75S**

| Item                    | Parameters                   | Condition                       | Units        | Min  | Typical   | Max  | Remarks       |  |
|-------------------------|------------------------------|---------------------------------|--------------|------|-----------|------|---------------|--|
| Input characteristics   | Input Voltage Range          |                                 | VDC          | 36   | 48        | 80   |               |  |
|                         | Start Up Time                | Vin=36-80VDC                    | S            | 0.5  | 0.7       | 1    |               |  |
|                         | Remote control terminal(CNT) | NC OR +Vin                      |              | on   |           |      |               |  |
|                         |                              | -Vin                            |              | off  |           |      |               |  |
| Output characteristics  | Output Power                 |                                 | W            |      | 8         | 10   |               |  |
|                         | Output Voltage               | Vin=36-80VDC                    | VAC          | 70   | 75        | 80   |               |  |
|                         | Output Frequency             | Vin=36-80VDC                    | Hz           | 22   | 25        | 28   |               |  |
|                         | Output Current               | Vin=36-80VDC                    | A            |      | 0.11      | 0.13 |               |  |
|                         | Output Waveform              | Vin=36-80VDC                    | VAC          |      | Sine Wave |      |               |  |
|                         | THD                          | Vin=36-80VDC                    | %            |      |           | ±3   |               |  |
|                         | Maximum Voltage Regulation   | Vin=36-80VDC<br>Iout=0.13A      | %            |      |           | ±2   |               |  |
|                         | Maximum Load Regulation      | Vin=36-80VDC<br>Iout=0.01-0.13A | %            |      |           | ±2   |               |  |
|                         | Temperature coefficient      |                                 | %/°C         |      | 0.1       |      |               |  |
| Protection Function     | Over Current Protection      | bias                            | A            | 0.13 | 0.16      | 0.19 | Self-recovery |  |
|                         | Input Current                | short circuit                   | mA           | 15   | 30        | 50   |               |  |
| General Characteristics | Switching Frequency          |                                 | KHz          |      | 200       |      |               |  |
|                         | Isolate voltage              | Input to Output                 | 1mA, 1minute | VDC  | 1400      |      |               |  |
|                         |                              | Output to case                  | 1mA, 1minute | VDC  | 1400      |      |               |  |
|                         |                              | Input to case                   | 1mA, 1minute | VDC  | 1400      |      |               |  |
|                         | Isolate resistance           | 1400VDC                         | MΩ           | 50   |           |      |               |  |
|                         | Humidity                     |                                 | %            |      |           | 90   |               |  |
|                         | Operating temperature        |                                 | °C           | -25  |           | +55  |               |  |
| Storage temperature     |                              | °C                              | -40          |      | +85       |      |               |  |



## 2. Dimensions and Pin Definition (Unit: mm)



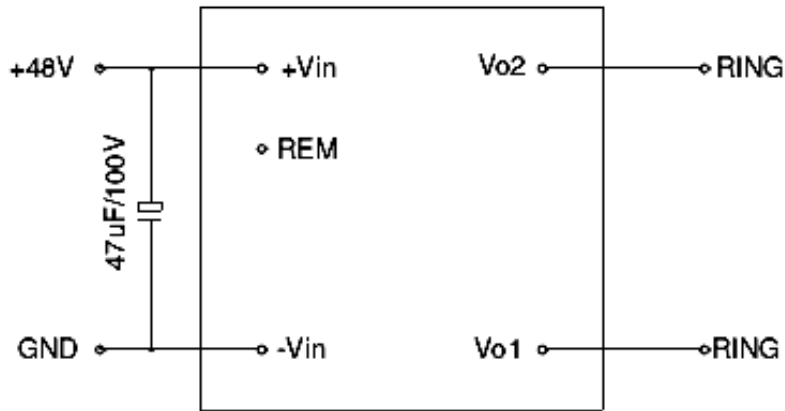
### Pin Definition

| Pin          | 1              | 2              | 3                       | 4      | 5      |
|--------------|----------------|----------------|-------------------------|--------|--------|
| Sign         | +Vin           | -Vin           | REM                     | Vo2    | Vo1    |
| Pin Function | Positive Input | Negative Input | Remote control terminal | Output | Output |

**Note:** Tolerance  $\pm 0.2$ mm without mark



### 3. Typical ring generator application



Note : Do not add capacitor to the output terminal of ring generator.

#### 3.1 About input polarity:

The input of DC/DC or DC/AC converters must be connected according to polarity. The "+Vin" pin should always has a higher potential than the "-Vin" pin. Reverse polarity will cause permanent damage to the converter. For converters with isolated input and output, any one input pin can be connected to any one output pin without harm.

#### 3.2 Remote ON/OFF Control:

"REM" pin is used to control ON/OFF of a converter. Commonly a TTL voltage is used, with "-Vin" as logic reference ground.

When "REM" is connected with "-Vin"(reference ground), the converter is "ON". when "REM" is kept open or connected with "+Vin", the converter is "OFF". The required "REM" voltage is lower than 0.3V for "ON" and higher than 1V for "OFF" .

If the control circuit needs to be isolated with the converter's input, an opto-coupler can be used, as in Fig.3.

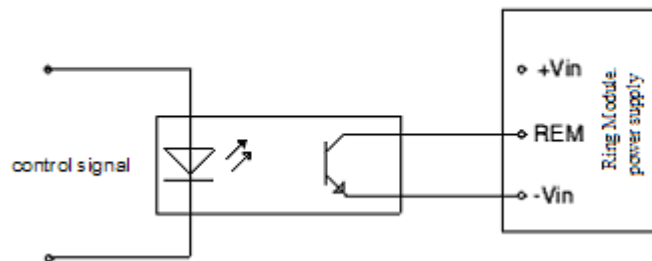
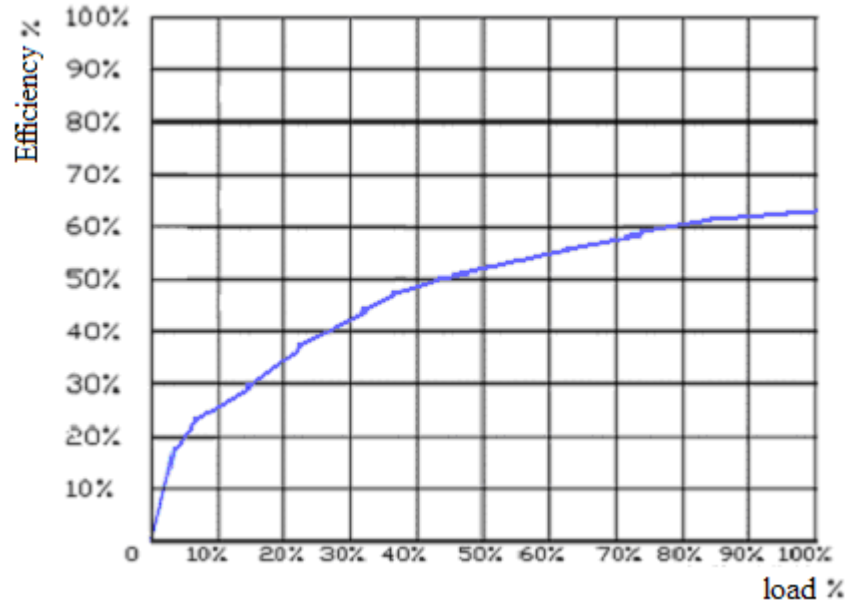


Fig.3

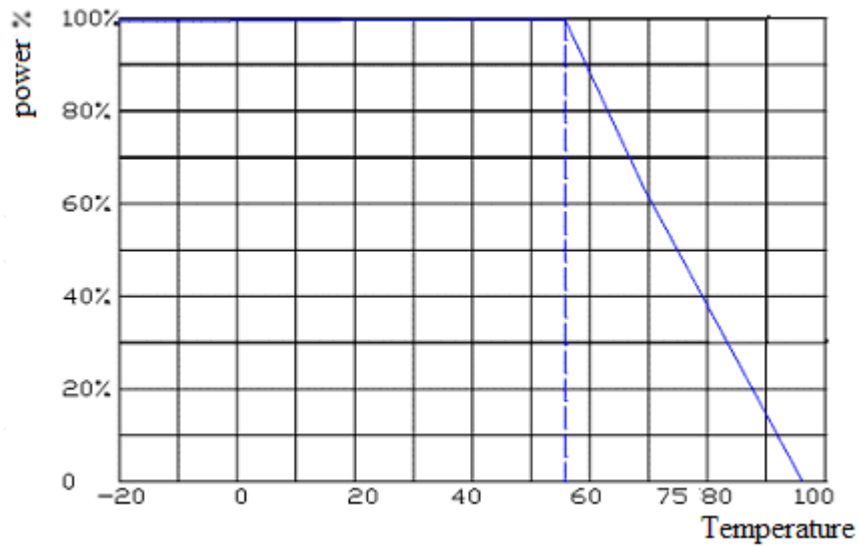


## 4.Characteristic Curves

### 4.1 Efficiency vs.Load at Room Temperature



### 4.2 Output Power vs. Operation Case Temperature





4.3 Wave-soldering Temperature charts

