

# HEATIT DIN TRANSFORMER 24V

Transformer 230VAC to 24VDC 2.5A/60W

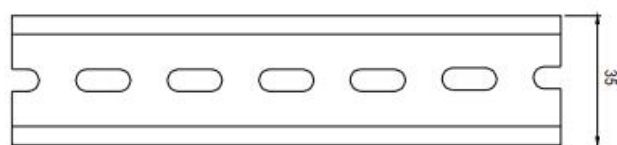
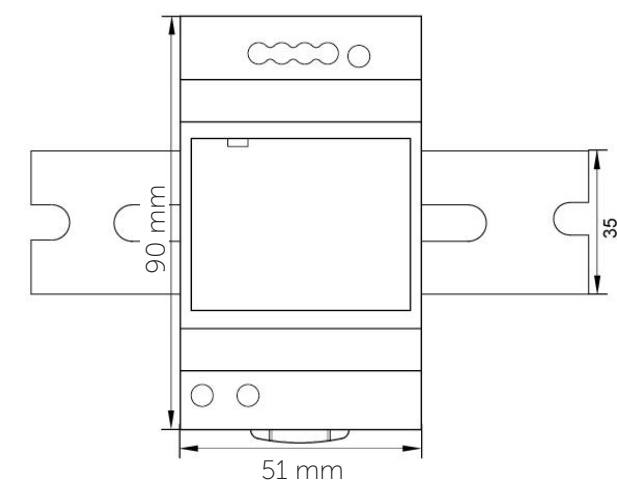


Article no.  
54 304 57

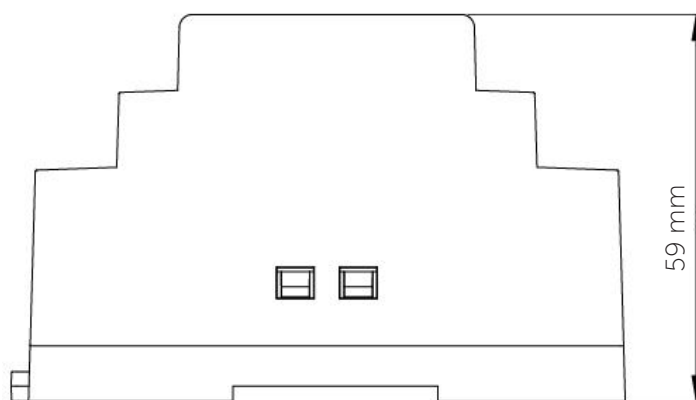
## Features

Input: 230VAC - 50Hz 1.5A Max  
Output: 24VDC / 2.5A / 60W  
High efficiency  
Low ripple and noise  
Adjustable DC voltage output  
Overload protection  
Over voltage protection  
Short Circuit protection  
Isolation Class II  
Mounting on 35mm DIN rail

## Dimensions and Installation



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

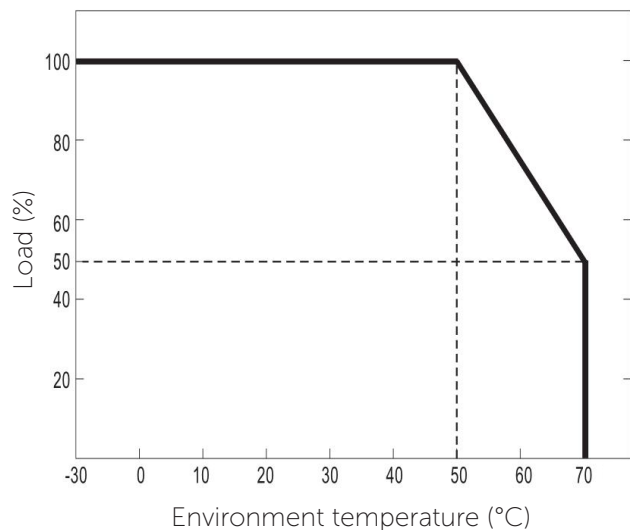


Therminal Pin No. Assignment

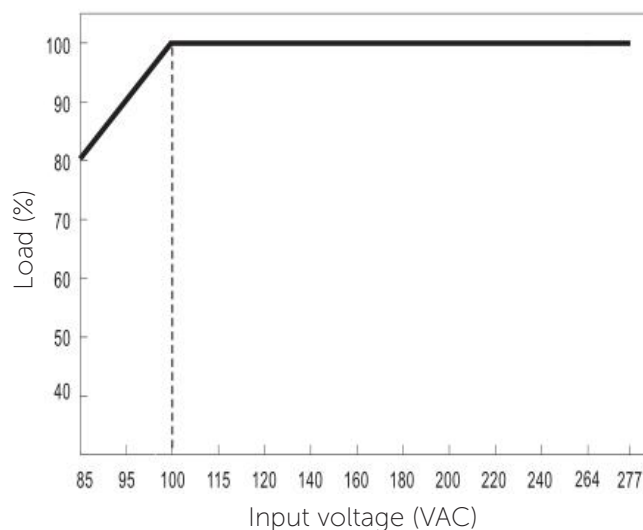
| PIN NO. | ASSIGNMENT | PIN NO. | ASSIGNMENT |
|---------|------------|---------|------------|
| 1, 2    | - V        | 5       | AC / L     |
| 3, 4    | + V        | 6       | AC / N     |

| MODEL DETAIL SPEC. |                             | YSD60S-4801250                                                                                                                           | 2 / 3 |
|--------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------|
| INPUT              | Input Voltage:              | 85-264VAC                                                                                                                                |       |
|                    | Input Frequency:            | 47 / 63Hz                                                                                                                                |       |
|                    | Inrush Current:             | 30A / 115VAC    60A / 230VAC                                                                                                             |       |
|                    | AC Current:                 | 1.2A / 115VAC    0.8A / 230VAC                                                                                                           |       |
|                    | Leakage Current:            | < 0.25mA / 240VAC                                                                                                                        |       |
|                    | Efficiency:                 | 90%                                                                                                                                      |       |
| OUTPUT             | DC Voltage:                 | 24V                                                                                                                                      |       |
|                    | Rated Current:              | 2.5A                                                                                                                                     |       |
|                    | Rated Power:                | 60W                                                                                                                                      |       |
|                    | Voltage Tollerance:         | ±5%                                                                                                                                      |       |
|                    | Ripple and Noise:           | 150mVp-p                                                                                                                                 |       |
|                    | Line Regulation:            | ±1%                                                                                                                                      |       |
|                    | Load Regulation:            | ±1%                                                                                                                                      |       |
|                    | Setup, Rise, Holde Up time: | 500mS/ 80mS/ 12mS (115V/60HZ MAX ROAD)<br>500mS/ 80mS/ 30mS (230V/50HZ MAX ROAD)                                                         |       |
| ENVIRONMENTAL      | Operating Temp:             | -20° to 50°, Full Load, Normal Operation                                                                                                 |       |
|                    | Storage Temp:               | -40° to 80°                                                                                                                              |       |
|                    | Storage Humidity:           | 10 ~ 95% RH                                                                                                                              |       |
|                    | Working Humidity:           | 20% ~ 90% RH Non-Condensing                                                                                                              |       |
| PROTECTION         | Over Load:                  | >130%-200% Rated Output Power                                                                                                            |       |
|                    |                             | Protection type: Hiccup Mode- recovers automatically after fault condition is removed                                                    |       |
|                    | Over Voltage:               | 110~145%                                                                                                                                 |       |
|                    |                             | Protection Type: Clamp by Zener diode                                                                                                    |       |
|                    | Short Circuit:              | Protection to Zero Voltage                                                                                                               |       |
|                    | Over Current:               | 110%-180%                                                                                                                                |       |
| SAFETY & EMC       | Safety Regulations:         | UL62368-1, IEC62368-1, EN62368-1                                                                                                         |       |
|                    | Withstand Voltage:          | I/P-O/P: 3KVAC                                                                                                                           |       |
|                    | Isolation Resistance:       | I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH                                                                                                |       |
|                    | EMC Emission:               | EN55032(CISPR32), CNS13438 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN55024, EN55035, EN61000-6-2, EN61204-3 |       |
| OTHER              | MTBF:                       | 200,000 Hours Minimum at Full Load at 25° Ambient                                                                                        |       |
|                    | Size:                       | 90*51*59mm                                                                                                                               |       |

## Deduction curve and temperature



## Minus output and input voltage curves



## Functional Diagram

