

# POWER SUPPLY MODULE

## STP – 24A1



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## USER'S MANUAL

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## 1. INTRODUCTION

The power supply module STP-24A1, produced by "S. T. INNOVATORS" Ltd. is used to convert alternating sinusoidal voltage 90-250 VAC / 50-400 Hz, and the DC voltage 100-300 VDC to stabilized DC voltage 24 VDC / 1 A.

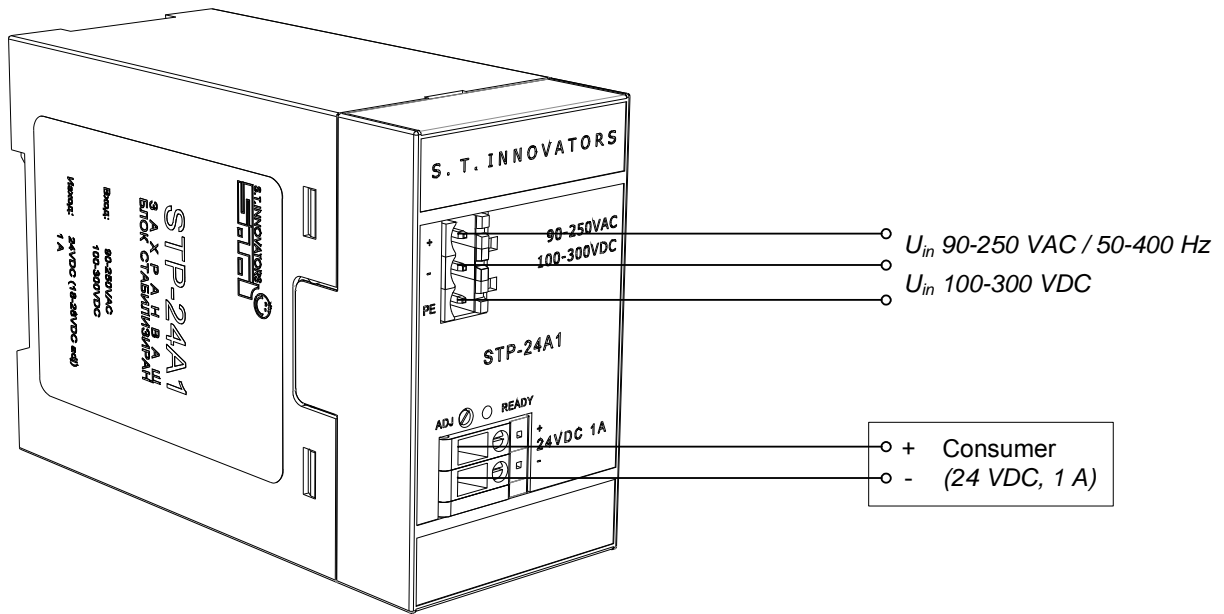
## 2. STRUCTURE

STP-24A1 e designed for mounting on a standard 35/7,5 mm DIN-rail and has the following dimensions: 45 x 75 x 105 mm (W x H x D).

STP-24A1 consist of the following units and components:

- pluggable screw connection terminal for input voltage;
- input filter;
- rectifier;
- pulse stabilizer;
- isolating transformer;
- screw connection terminal for output voltage;
- LED (green), indicating normal operation of the power supply module.

### 3. CONNECTION DIAGRAM



### 4. TECHNICAL DATA

- 4.1. Nominal input voltage range:
- 90 – 250 VAC / 50 – 400 Hz;
  - 100 – 300 VDC
- 4.2. Nominal output voltage: 24 VDC (18–28 VDC Adj.);
- 4.3. Output current: 1 A;
- 4.4. Maximum power consumption: 35 VA;
- 4.5. Maximum output current:  $\leq 1,15$  A
- 4.6. Indication – green LED
- Lit – normal operation;
  - Not lit - the output overload
- 4.7. Protection:
- input fuse 3,15A (internal);
  - short-circuit output protection for unlimited period
- 4.4. Accuracy:  $\pm 1$  %;
- 4.5. Dimension (W x H x D): 45 x 75 x 105 mm;
- 4.6. Mounting: DIN rail (35/7,5 mm);
- 4.7. Work temperature:  $-25 \div 50$  °C.

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