

# SPS-24/3,2

- single output, industrial DIN rail power supply
- universal AC input / full range
- protections: short circuit / overload / over voltage / over temperature
- LED indicator for power on
- 100% full load burn-in test



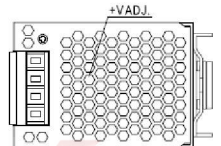
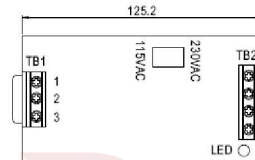
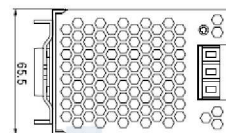
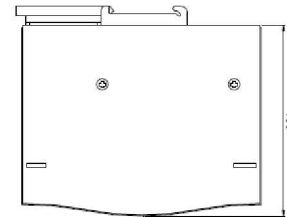
Din Rail power supplies are a fanless design for installation on TS35/7,5 or TS35/15 industrial rails available as a slim line 60 Watt unit. Known uses include general industrial applications including factory automation, electro-mechanical industry, data communications, IT, power distribution boxes, control panels, building automation and household appliance control.

- cooling by free air convection,
- can be installed on DIN rail TS-35/7,5 or 15,
- fix switching frequency at 50KHz,
- isolation class II.

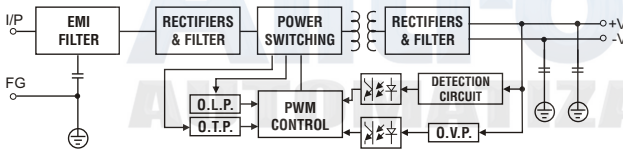
## Pin assignment and dimensions

Terminal Pin. No Assignment (TB1)

Pin No.	Assignment
1	FG
2	AC/N(DC+)
3	AC/L(DC-)



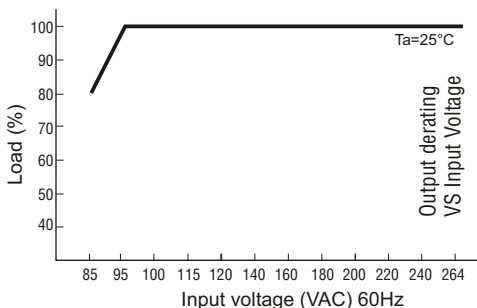
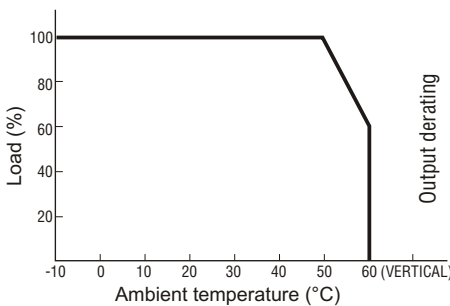
## Block diagram



Terminal Pin. No Assignment (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

## Output derating



## Technical data

**Output:**

- DC voltage: 24 V
- Rated current: 3,2 A
- Current range: 0 - 3,2 A
- Rated power: 76,8 W
- Ripple & noise (max.): 150mVp-p
- Voltage adj. Range: 24 - 28 V
- Voltage tolerance: ± 1%
- Line/load regulation: ± 0,5%/± 1%
- Setup, rise time: 1000ms, 60ms/230VAC; 1800ms, 60ms/115VAC at full load
- Hold time (typ.): 60ms/230VAC; 12ms/115VAC at full load

**Input:**

- Voltage range: 85 - 264 VAC; 120 - 370 VDC
- Frequency range: 47 - 63 Hz
- Efficiency (typ.): 80%
- AC current (typ.): 1,6A/115VAC; 0,96A/230VAC
- Inrush current (typ.): COLD START 20A/115VAC; 40A/230VAC

**Overload protection:** 105 - 150% rated output power; protection type: constant current limiting, recovers automatically after fault condition is removed

**Over voltage protection:** 29 - 34 V; protection type: shut down o/p voltage, re-power on to recover

**Over temp. protection:** 85°C ± 5°C (TSW1) detect on heat sink of power transistor; protection type: shut down o/p voltage, recovers automatically after temp. goes down

**Working temperature:** -10°C - +60°C (Refer to output load derating curve)

**Working humidity:** 20 - 90% RH non-condensing

**Storage temperature / humidity:** -20°C - +85°C / 10 - 95% RH

**Temperature coefficient:** 0,03%/°C (0 ~ 50°C)

**Vibration:** 10 - 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes

**Weight:** 0,6 kg

**Dimensions (W x H x D):** 55.5 x 125.2 x 100 mm

**Safety standards:** UL60950-1, TUV EN60950-1 Approved, Design refer to EN50178

**EMC:** EN55022 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11,

ENV50204, EN61204-3

## Ordering

SPS-24/3,2