

SPS-24/10

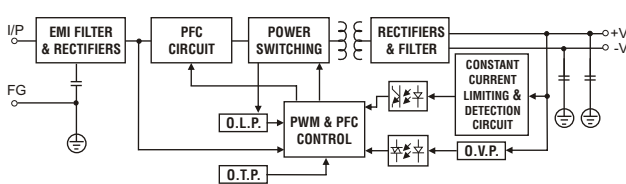
- ▣ single output, industrial DIN rail power supply
- ▣ universal AC input / full range
- ▣ protections: short circuit / overload / over voltage / over temperature
- ▣ LED indicator for power on
- ▣ 100% full load burn-in test



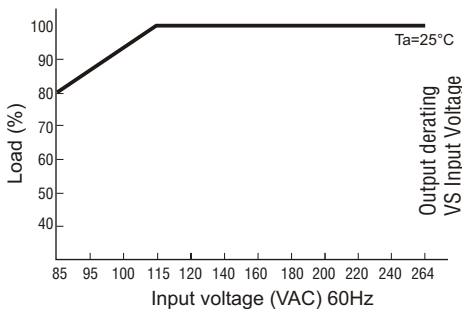
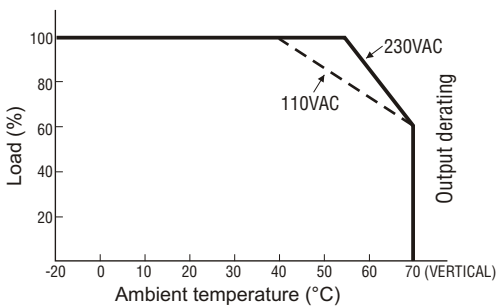
Din Rail power supplies are a fanless design for installation on TS35/7,5 or TS35/15 industrial rails available as a slim line 60 Watt unit. Known uses include general industrial applications including factory automation, electro-mechanical industry, data communications, IT, power distribution boxes,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

- built-in active PFC function,
- cooling by free air convection,
- can be installed on DIN rail TS-35/7,5 or 15,
- fixed switching frequency at 100KHz,
- UL 508 (industrial control equipment) approved.

Block diagram



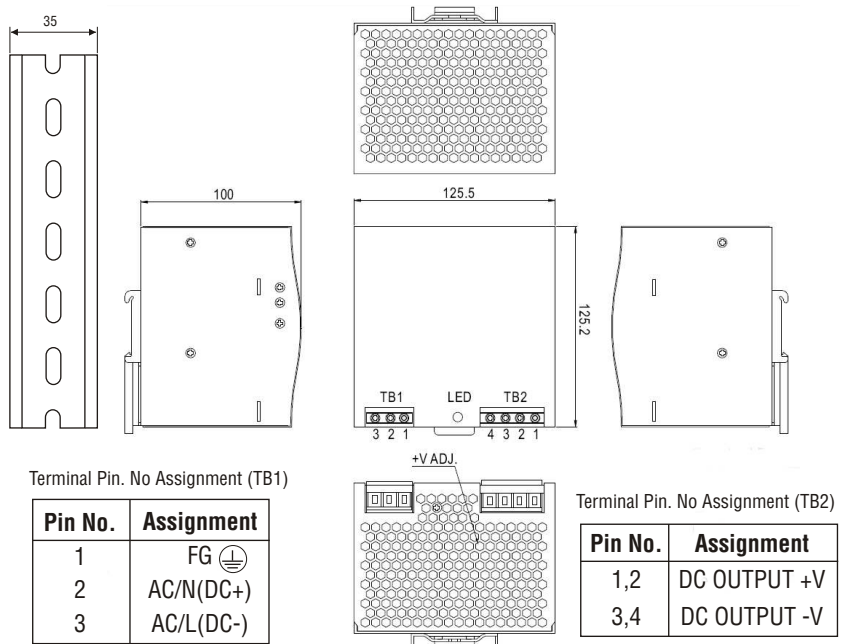
Output derating



Ordering

SPS-24/10

Pin assignment and dimensions



Technical data

Output:

- DC voltage: 24 V
- Rated current: 10 A
- Current range: 0 - 10 A
- Rated power: 240 W
- Ripple & noise (max.): 80mVp-p
- Voltage adj. Range: 24 - 28 V
- Voltage tolerance: ± 1%
- Line/load regulation: ± 0,5%/± 1%
- Setup, rise time: 800ms, 40ms/230VAC; 800ms, 40ms/115VAC at full load
- Hold time (typ.): 24ms/230VAC; 24ms/115VAC at full load

Input:

- Voltage range: 85 - 264 VAC; 120 - 370 VDC
- Frequency range: 47 - 63 Hz
- Efficiency (typ.): 84%
- AC current (typ.): 2,8A/115VAC; 1,4A/230VAC
- Inrush current (typ.): COLD START 27A/115VAC; 45A/230VAC

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

Over voltage protection: 30 - 36 V; protection type: shut down o/p voltage, re-power on to recover

Over temp. protection: 100°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 - +70°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: 1,2 kg

Dimensions (W x H x D): 125.5 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