

SPS-24/5

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



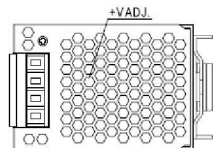
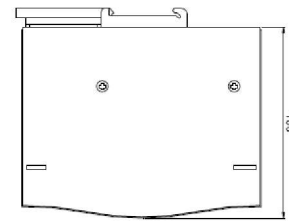
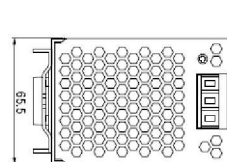
Din Rail power supplies are a fanless design for installation on TS35/7,5 or TS35/15 industrial rails available as a slim line 120 Watt unit. Known uses include general industrial applications including factory automation, electro-mechanical industry, data communications, IT, power distribution boxes, control panels, building automation and household appliance control.

- AC input range selectable by switch,
- cooling by free air convection,
- fixed switching frequency at 55KHz,
- can be installed on DIN rail TS-35/7,5 or 15,
- UL 508 (industrial control equipment) approved,
- isolation class II.

Pin assignment and dimensions

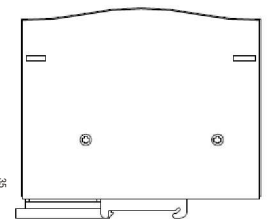
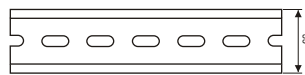
Terminal Pin. No Assignment (TB1)

Pin No.	Assignment
1	FG
2	AC/N
3	AC/L

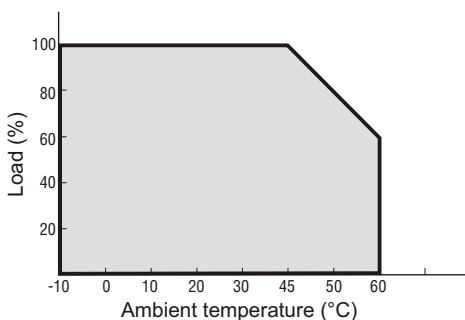


Terminal Pin. No Assignment (TB2)

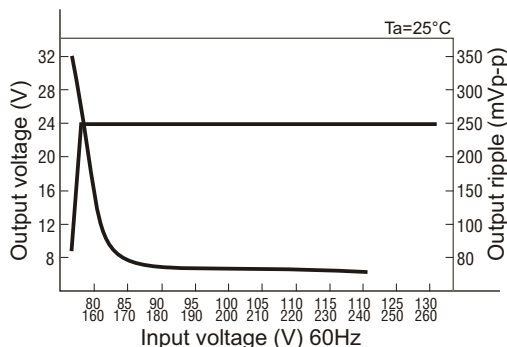
Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V



Output derating



Static characteristics



Technical data

- Output:** DC voltage: 24 V
 Rated current: 5 A
 Current range: 0 - 5 A
 Rated power: 120 W
 Ripple & noise (max.): 80mVp-p
 Voltage adj. Range: 24 - 48 V
 Voltage tolerance: $\pm 1\%$
 Line/load regulation: $\pm 0,5\%/\pm 1\%$
 Setup, rise time: 500ms, 70ms/230VAC; 500ms, 70ms/115VAC at full load
 Hold time (typ.): 36ms/230VAC; 32ms/115VAC at full load
- Input:** Voltage range: 88 - 132VAC/176 - 264VAC by switch; 248 - 370VDC
 Frequency range: 47 - 63 Hz
 Efficiency (typ.): 84%
 AC current (typ.): 2,6A/115VAC; 1,6A/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 - 33 V; protection type: shut down o/p voltage, re-power on to recover
- Over temperature protection:** 90°C $\pm 5^\circ\text{C}$ (TSW1); protection type: shut down o/p voltage, recovers automatically after temperature goes down
- Working temperature:** -10°C - +60°C (Refer to output load derating curve)
- Working humidity:** 20 - 90% RH non-condensing
- Storage temperature:** -20°C - +85°C
- Storage humidity:** 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:** 0,79 kg
- Dimensions (W x H x D):** 65,5 x 125 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-24/5