

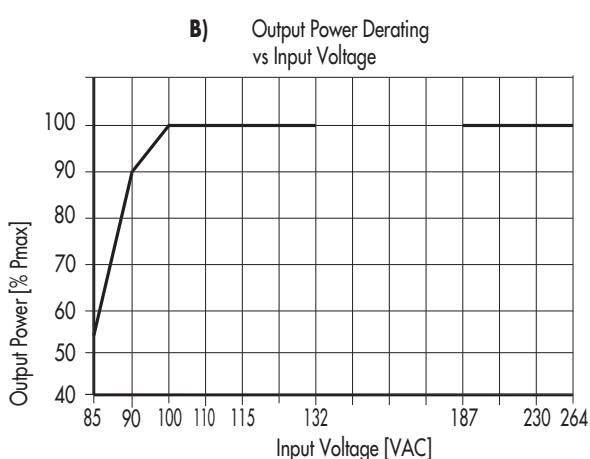
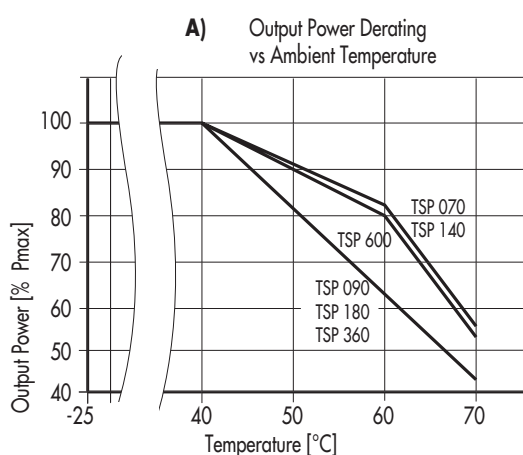
General Specifications

Max. capacitive load		unlimited
Temperature range	– Operating	–25°C to +70°C max. (for derating see graph A on page 4)
	– Storage	–25°C to +85°C
Cooling		convection cooling, no internal fan
Humidity (non condensing)		95 % rel. H max.
Pollution degree		2
Temperature coefficient		0.02 %/K
Reliability, calculated MTBF (at +25°C acc. to IEC 61709)	– TSP 070/090 – TSP 140 – TSP 180/360/600	>1.8 Mio h >1.2 Mio h >0.9 Mio h
Remote On/Off		by ext. contact. DC on: -S contact open DC off: -S connected via 1Kohm to -Vout
Isolation		according to IEC/EN 60950-1, UL 60950-1, UL 508
Safety standards	– Information technology equipment – Industrial control equipment – Electrical equipment for machines – Electronic equipment for power installation – Safety transformers for SMPS – Limited power source (model TSP 090-124N) – Control equipment for hazardous location	IEC/EN 60950-1, UL 60950-1, CSA-C22.2 No. 60950-1-03 UL 508, CSA-C22.2 No. 107 EN 60204 EN 50178 EN 61558-2-16 EN 60950 sect. 2.5 and NEC Class 2 UL 60079-15 (Class I, Division 2, Groups A,B,C,D AEx n C II C T4 U) IEC/EN 60079-15 (Class I, Zone 2, EEx nC II C T4 U), ⚠ IISG EEx nAC IIC T4 (T3 with limited power)
Safety approvals and certifications	– CB report – UL approvals – CSA certification – ⚠ IISG ATEX 94/9/EC – BG certification – Certification documents	for IEC/EN 60950-1 UL 60950-1 rec. File: e181381, UL 508 listed File: e210002 (file no. 219759) for UL 60950-1, UL 508, UL 60079-15-02, ANSI/ISA 12.12.01, CSA-22.2 No. 60950-1-03, CSA C22.2 No. 107, CSA 60079-15-02 certificate no. EPS 12 ATEX 1 424 X (option -EX only) EN 60950-1, EN 60204-1, EN 61558-2-16, EN 50178 www.tracopower.com/overview/tsp
Class of protection		safety class I (IEC 536)
Degree of protection		IP 20 (IEC/EN 60529)
Electromagnetic compatibility (EMC), Emissions	– Conducted RI suppression on input – Radiated RI suppression	EN 61000-6-3, EN 61204-3 EN 55011 class B, EN 55022 class B, EN 55011 class B, EN 55022 class B,
Electromagnetic compatibility (EMC), Immunity	– Electrostatic discharge (ESD) – Radiated RF field immunity TSP 070/140/360 models: TSP 090/180/600 models: – Electrical fast transient / burst immunity – Surge immunity – Immunity to conducted RF disturbances – Power frequency field immunity – Mains voltage dips and interruptions – Voltage sag immunity	EN 61000-6-2, EN 61204-3 IEC / EN 61000-4-2 4 kV / 8 kV criteria B IEC / EN 61000-4-3 10 V / m criteria A IEC / EN 61000-4-3 10 V / m criteria B IEC / EN 61000-4-4 2 kV criteria B IEC / EN 61000-4-5 1 kV / 2 kV criteria B IEC / EN 61000-4-6 10 V criteria A IEC / EN 61000-4-8 30 A / m criteria A IEC / EN 61000-4-11 criteria B/C SEMI F47 www.tracopower.com/products/TSP_SemiF47.pdf

General Specifications

Environment	– Vibration acc. IEC 60068-2-6; – Shock acc. IEC 60068-2-27	3 axis, sine sweep, 10 – 55 Hz, 1 g, 1 oct/min 3 axis, 15 g half sine, 11 ms
Enclosure material		aluminium (chassis) / stainless steel (cover)
Mounting	– DIN-rail mounting – Wall mounting (option)	for DIN-rails as per EN 50022-35x15/7.5 (snap-on with self-locking spring) with wall mounting bracket - see page 9
Connection		detachable screw terminals (plugs included) 2 terminals per output
Remote On/Off connection	– 2 pin molex male terminal KK series	mating connector information (cable not included) www.tracopower.com/products/tsp-rc-cable.pdf
Installation instructions		www.tracopower.com/overview/tsp

Output Power Derating



All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.