

General Specifications

Temperature ranges	– Operating (ambient temp.) – Derating above 50°C (122°F) – Storage (non operating)	–25°C to +70°C 2 %/K –25°C to +85°C
Humidity (non condensing)		95 % rel. H max.
Pollution degree		2
Temperature coefficient		0.02 %/K
Switching frequency		80 kHz typ. (pulse width modulation)
Efficiency	TIS 50 ... TIS 300: TIS 500: TIS 600:	85 % typ. 90 % typ. 90 % typ.
Isolation		according to IEC/EN 60950, UL 60950, UL 508
Reliability, calculated MTBF (MIL-HDBK-217F, at +25°C, ground benign)	TIS 50/75: TIS 150/300: TIS 500/600:	450'000 h / 420'000 h 420'000 h / 360'000 h 340'000 h / 300'000 h
Safety standards		IEC/EN 60950-1 (SELV, except 72 VDC models) UL/cUL 60950-1, UL 508, UL/cUL 1604
Safety approvals	– CB report – UL approvals	for IEC 60950 UL/cUL 60950, File e181381 UL/cUL 508, File e210002 UL/cUL 1604, File e213613 not for TIS 50 & 500 (Class I, Div. 2, Groups A, B, C and D hazardous locations) www.ul.com -> certifications UL 60950-1, CSA 60950-1 www.tracopower.com/overview/tis
	– CSA certificate – Certification documents	
Electromagnetic compatibility (EMC), Emissions	– Conducted RI suppression on input – Radiated RI suppression	EN 61000-6-3 / EN 61000-6-4 EN 55011 class B, EN 55022 class B, FCC part 15, level B EN 55011 class A, EN 55022 class A, FCC part 15, level A
Electromagnetic compatibility (EMC), Immunity	– Electrostatic discharge (ESD) – Radiated RF field immunity – Electrical fast transient / burst immunity – Surge immunity – Immunity to conducted RF disturbances – Power frequency field immunity	EN 61000-6-2 IEC/EN 61000-4-2 4 kV/8 kV IEC/EN 61000-4-3 10 V/m IEC/EN 61000-4-4 2 kV IEC/EN 61000-4-5 2 kV/4 kV IEC/EN 61000-4-6 10 V IEC/EN 61000-4-8 30 A/m
Safety class		degree of electrical protection 1 (IEC 536)
Case protection		IP 20 (IEC 529)
Environment	– Vibration – Shock	IEC 60068-2-6; 1 gn, 200 sweeps, each axis IEC 60068-2-27; 15 gn, 11 ms, each axis
Enclosure material		aluminium (chassis) / zinc plated steel (cover)
Mounting (snap-on with self locking spring)		for 35 mm DIN-rails as per EN 50022
Connection		detachable screw terminal block (plugs included) (TIS 600: fixed screw terminal block)

Instruction manual can be downloaded under:
www.tracopower.com/overview/tis

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

Power Supplies with Redundancy Function

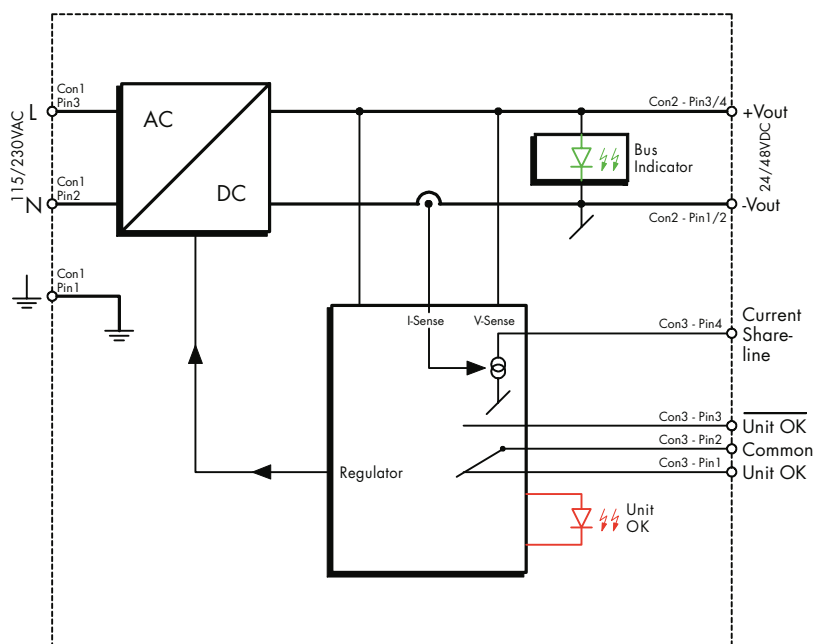
With this option a parallel operation of up to 5 units is possible. Decoupling diodes and current share lines allow to build true N +1 redundant systems with active current sharing for all units. This function also includes an alarm relay to signal a single unit failure.

This option is available for TIS 150 W, TIS 300 W and TIS 600 W models.

Please note: This option cannot be combined with other options.

Models

Order Code (includes terminal plugs)	Input Voltage	Output Power max.	Output Voltage nom.	Output Current max.
TIS 150-124 RED	115/230 VAC	150 W	24 VDC	6.0 A
TIS 150-148 RED	selectable		48 VDC	3.0 A
TIS 300-124 RED	115/230 VAC	300 W	24 VDC	12 A
TIS 300-148 RED	selectable		48 VDC	6.0 A
TIS 600-124 RED	115/230 VAC	600 W	24 VDC	24 A
TIS 600-148 RED	selectable		48 VDC	12 A



Specifications

Rating per relay contact

60 VDC /0.36 A max.

Instruction manual for RED option can be downloaded under:

www.tracopower.com/overview/tis