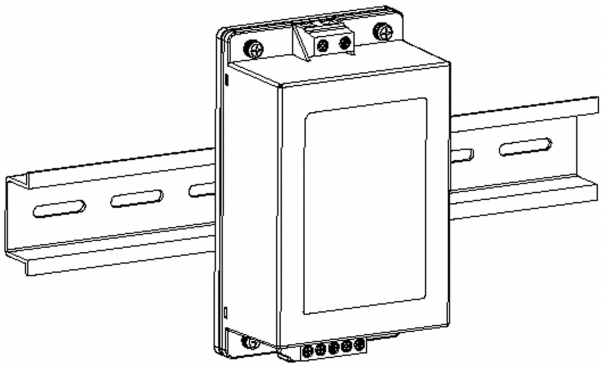
General Specifications

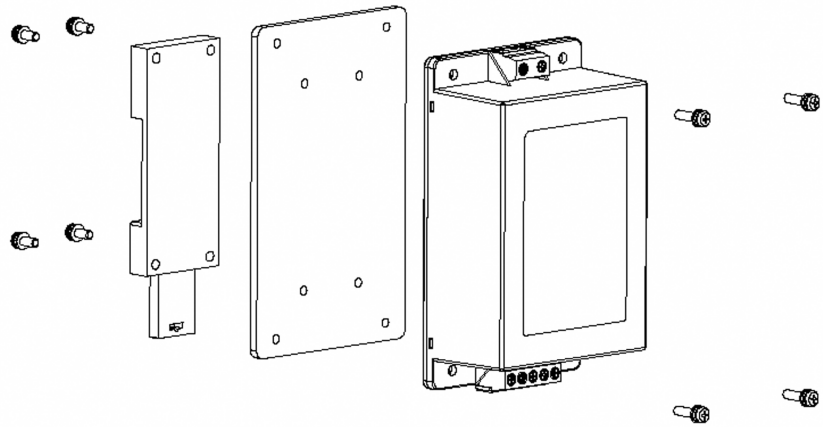
Temperature ranges	– Operating (natural convection cooling 20 LFM) – Power derating above +65°C – Storage (non operating)	–40°C to +80°C 5.0 %/K –40°C to +95°C
Over temperature protection	shutdown: automatic recovery:	above 90°C (142°C internal IC temperature) at approx 67°C
Humidity (non condensing)		95 % rel max.
Altitude during operation		5000 m
Switching frequency (pulse width modulation PWM)		132 kHz typ.
Hold-up time	115 VAC: 230 VAC:	20 ms typ. 80 ms typ.
Isolation voltage	– Input/Output	4'000 VAC
Isolation resistance	– at 500 VDC	1'000 MOhm
Reliability /calculated MTBF (MIL-HDBK-217F, at +25°C, ground benign)		>400'000 h
EMI / RFI conducted and radiated		EN 55022, class B, FCC part 15, level B EN 55011 class B
Electromagnets compatibility (EMC), immunity	– Electrostatic discharge ESD – RF field immunity – Electrical fast transients – Surge – Conducted RF – Magnetic field immunity – Voltage dip and interruptions (115 VAC / 60 Hz)	IEC / EN 61000-4-2, 8kV/4kV perf. criteria A IEC / EN 61000-4-3, 10V/m perf. criteria A IEC / EN 61000-4-4, ±2kV perf. criteria A IEC / EN 61000-4-5, ±1kV perf. criteria A IEC / EN 61000-4-6, 10 Vr.m.s perf. criteria A IEC / EN 61000-4-8, 30 A/m perf. criteria A IEC / EN 61000-4-11 30%,10ms perf. criteria A IEC / EN 61000-4-11 >95%, 5s perf. criteria B
Protection class II		acording IEC/EN 60536
Safety standards	– Certification documents	UL 60950-1, IEC/EN 60950-1, IEC 60601-1 3rd edition, 2 x MOPP ANSI/AAMI ES 60601-1:2005(R)2012 UL 508 for chassis mount version www.tracopower.com/overview/tmm24
Casing material		plastic resin (UL 94V-0 rated)
Environmental compliance	– Reach – RoHS	www.tracopower.com/products/reach-declaration.pdf RoHS directive 2011/65/EU

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

DIN-Rail Mounting Kit

Adapter for mounting on DIN-rails as per EN 50022-35 (snap-on mounting)





DIN-Rail Mounting Kit	
Order code	**For models**
TMP-MK1	TMM 24xxxC

Kit contains interface plate, DIN-rail clip and necessary screws.