EMC Specifications

EMC Emission			EN 60601-1-2 edition 4 (Medical Devices)
	- Conducted Emissions		EN 55011 class B (internal filter)
			EN 55014-1
			EN 55032 class B (internal filter)
			FCC Part 15, class B
			FCC Part 18, class B
	- Radiated Emissions		EN 55011 class B (internal filter)
			EN 55014-1
			EN 55032 class B (internal filter)
			FCC Part 15, class B
			FCC Part 18, class B
	- Harmonic Current Emissions		EN 61000-3-2, class A
	- Voltage Fluctuations & Flicker		EN 61000-3-3
EMC Immunity			EN 55024 (IT Equipment)
			EN 60601-1-2 edition 4 (Medical Devices)
			EN 55014-2 (Household Appliances Tools)
	- Electrostatic Discharge	Air:	EN 61000-4-2, ±15 kV, perf. criteria A
		Contact:	EN 61000-4-2, ±8 kV, perf. criteria A
	- RF Electromagnetic Field		EN 61000-4-3, 20 V/m, perf. criteria A
	- EFT (Burst)		EN 61000-4-4, ±2 kV, perf. criteria A
	- Surge	L to L:	EN 61000-4-5, ±1 kV, perf. criteria A
	- Conducted RF Disturbances		EN 61000-4-6, 20 Vrms, perf. criteria A
	- PF Magnetic Field		EN 61000-4-8, 30 A/m, perf. criteria A
	- Voltage Dips & Interruptions	230 VAC / 50 Hz:	EN 61000-4-11
			30%, perf. criteria A, 25 periods
			60%, perf. criteria A, 1 periods
			>95%, perf. criteria A, 1 period
			>95%, perf. criteria A, 250 periods
		115 VAC / 60 Hz:	EN 61000-4-11
			30%, 25 periods, perf. criteria A
			60%, 1 periods, perf. criteria A
			>95%, 1 period, perf. criteria A
			>95%, 250 periods, perf. criteria A

General Specifications

Relative Humidity		95% max. (non condensing)
Temperature Ranges	- Operating Temperature	-40°C to +85°C
	- Storage Temperature	-40°C to +85°C
Power Derating	- High Temperature	see application note www.tracopower.com/overview/tpp15a-d
	- Low Input Voltage	4 %/V below 90V
Cooling system		Natural convection (no internal fan, 20 LFM)
Altitude during Operation		5000 m max.
Switching Frequency		75 - 95 kHz (PWM)
Insulation System		Reinfoced Insulation
Working Voltage (rated)		250 VAC
Isolation Test Voltage	- Input to Output, 60 s	5'657 VDC
	- Input to Case or PE, 60 s	2'121 VDC
	- Output to Case or PE, 60 s	2'121 VDC
Isolation Resistance	- Input to Output, 500 VDC	100 MOhm min.
Leakage Current (264 VAC)	- Touch Current	75 µA max.
Creepage		8 mm min.
Clearance		8 mm min.
Reliability	- Calculated MTBF	3'100'000 h (acc. to MIL-HDBK-217F)

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

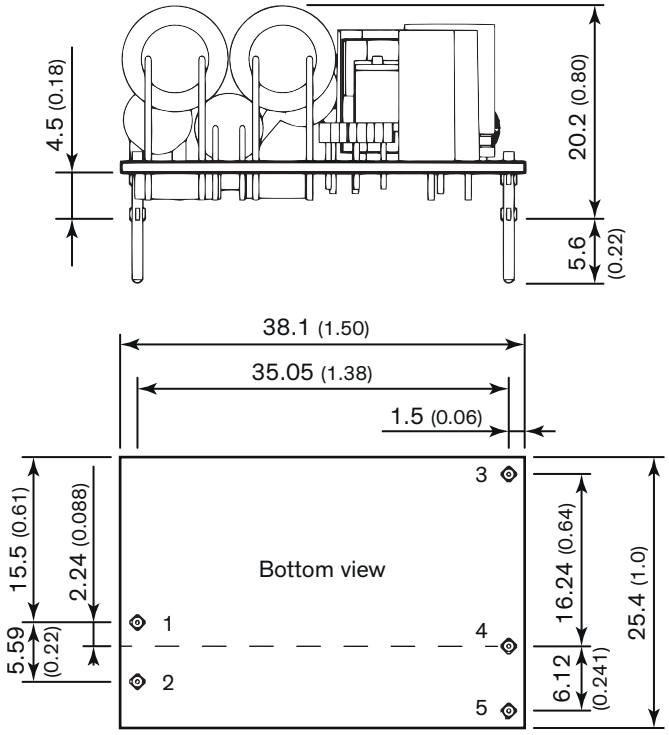
Environment	- Vibration	IEC 60068-2-6
	- Mechanical Shock	IEC 60068-2-27
Connection Type		THD (through-hole device)
Weight		16.5 g
Environmental Compliance	- Reach	www.tracopower.com/info/reach-declaration.pdf
	- RoHS	www.tracopower.com/info/rohs-declaration.pdf

Supporting Documents

Overview Link (for additional Documents)	www.tracopower.com/overview/tpp15a-d

Outline Dimensions

12, 15, 24, 36, and 48 VDC models - without heatsink



PCB Pinout	
Pin	**Function**
1	Neutral
2	Line
3	Trim
4	–Vout
5	+Vout

Print thickness: 1.0 mm (0.04 inch)
Pin diameter: 1.0 mm (0.04 inch)

Dimension in mm, () = inch
Tolerances: x.x ±0.50 (±0.02)
x.xx ±0.25 (±0.01)
Pin pitch tolerance: ±0.25 (±0.010)
Pin dimension tolerance: ±0.10 (±0.004)

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