

EMC Specifications

EMC Emission		
- Conducted Emissions		EN 60601-1-2 edition 4 (Medical Devices) 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		
- Electrostatic Discharge	Air:	EN 55024 (IT Equipment) EN 60601-1-2 edition 4 (Medical Devices) EN 55014-2 (Household Appliances Tools) EN 61000-4-2, ± 15 kV, perf. criteria A
- RF Electromagnetic Field	Contact:	EN 61000-4-2, ± 8 kV, perf. criteria A EN 61000-4-3, 20 V/m, perf. criteria A EN 61000-4-4, ± 2 kV, perf. criteria A
- EFT (Burst)	L to L:	EN 61000-4-5, ± 1 kV, perf. criteria A
- Surge	L to PE:	EN 61000-4-5, ± 2 kV, perf. criteria A EN 61000-4-6, 20 Vrms, perf. criteria A EN 61000-4-8, 30 A/m, perf. criteria A
- Conducted RF Disturbances	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
- PF Magnetic Field	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
- Voltage Dips & Interruptions		

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/tp15a-j
	- 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		Reinforced 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		100 MOhm min.
Leakage Current (264 VAC)		75 μ A max.
Creepage		8 mm min.
Clearance		8 mm min.

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

Reliability	- Calculated MTBF	3'100'000 h (acc. to MIL-HDBK-217F)
Environment	- Vibration	IEC 60068-2-6
	- Mechanical Shock	IEC 60068-2-27
Connection Type		JST
Weight		19 g
Environmental Compliance	- Reach	www.tracopower.com/info/reach-declaration.pdf
	- RoHS	www.tracopower.com/info/rohs-declaration.pdf

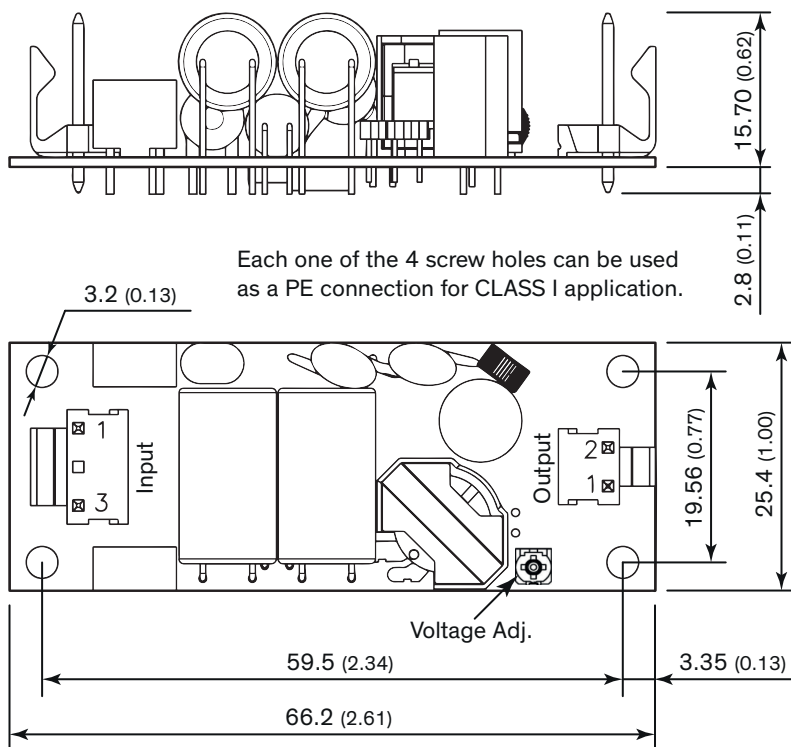
Supporting Documents

Overview Link (for additional Documents)

www.tracopower.com/overview/tp15a-j

Outline Dimensions

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



Print thickness: 1.0 mm (0.04 inch)

Dimension in mm, () = inch
Tolerances: x.x ± 0.50 (± 0.02)
x.xx ± 0.25 (± 0.01)

Pin connectors

Input		Output	
Pin	Function	Pin	Function
1	Line	1	-Vout
3	Neutral	2	+Vout

Input: JST series
mates with JST crimp terminal: SVH-21T-P1.1
and terminal housing: VHR-3N

Output: JST series
mates with JST crimp terminal: SVH-21T-P1.1
and terminal housing: VHR-2N

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