



TRACO POWER TML 20 Series Switching Power Supply Instruction Manual

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TRACO POWER TML 20 Series Switching Power Supply



INSTALLATION INSTRUCTIONS

Order Code	Output Power max.	Output 1	Output 2	Output 3
TML 20103	14.85 Watt	3.3Vdc / 4500mA		
TML 20105	20 Watt	5.0Vdc / 4000mA		
TML 20107	20 Watt	7.35Vdc / 2730mA		
TML 20109	20 Watt	9.0Vdc / 2230mA		
TML 20112	20 Watt	12.0Vdc / 1670mA		
TML 20115	20 Watt	15.0Vdc / 1340mA		
TML 20124	20 Watt	24.0Vdc / 840mA		
TML 20205	20 Watt	+5.0Vdc / 2000mA	-5.0Vdc / 2000mA	
TML 20212	20 Watt	+12.0Vdc / 830mA	-12.0Vdc / 830mA	

TML 20215	20 Watt	+15.0Vdc / 670mA	-15.0Vdc / 670mA	
TML 20512	20 Watt	+5.0Vdc / 2800mA	+12.0Vdc / 250mA	-12.0Vdc / 250mA
TML 20515	20 Watt	+5.0Vdc / 2800mA	+15.0Vdc / 200mA	-15.0Vdc / 200mA

Add C behind the order code for chassis mounting version with screw-type terminals.

Input Voltage Range:	90 – 264Vac / 47 – 440Hz	Load Derating:	all models: above +50°C of 3.75%/°C
	100 – 375Vdc	Terminal for wiring:	PCB mounting with solder pin's or Screw type terminal: Wires 1.5mm ² max Recommended tightening torque 0.5 to 0.7Nm (4.5 to 6.2lb.in.)
Input current:	0.400A typ at Vin = 115VAC 0.270A typ at Vin = 230VAC		
Output voltage accuracy	±2.0%		
Operating temperature range:	-25°C – +71°C max	Case material:	Plastic Resin + Fiberglass UL 94V-0 flammability rating
Case Temp.	+95°C max.		

Safety Instructions:

- Before installation read these instructions carefully and completely. This installation instruction can not claim for every possible example of installation, operation, or maintenance. Further information's area fro your caldistributorofficeor from the product datasheet which can be downloaded from the Internet at <http://tracopower.com>.
- The power supplies are constructed in accordance with the safety requirements of IEC/EN/UL60950 1. They fulfill the requirements of the Low voltage directive (LVD) and carry the CE mark. They are and cUL approved in accordance withUL60950 1 (recognized).
- Before any installation, maintenance, or modification work ensure that the main switch is switched off and prevented from being switched on again. In case of nonobservance touching at any alive components or improper dealing with this power supply can re sultan death, severe personal injury, or substantial property damage. Successful and safe operations are dependent on proper storage, handling, installation, and operation.
- Compliance with the relevant national regulations (in the USA, Europe, and other countries) must be sure. Before the operation is started the full owing conditions must be ensured:
 - Connection to the mains supply in compliance with national regulations (VDE0100 and EN50178).
 - By use of stranded wires, all strands must be fastened in the terminal blocks.
 - The power supply and main cables must be sufficiently fused.
 - All output wires must be rated for the power supply output current and must be connected with the correct polarity.
 - Sufficient cooling must be ensured.
 - Keep away from fire and water
 - Never work on the power supply if power is supplied! Risk of electric arcs and electrical shock which can cause death, severe personal injury or substantial property damage.
- Never work on the power supply if power is supplied! Risk of electric arcs and electrical shock which can cause death, severe personal injury or substantial property damage.
- Warning: Hazardous voltages and components storing a very substantial amount of energy are present in this power supply during normal operating conditions. However, these are inaccessible. Improper handling may result in an electric shock or serious burns!

Installation Instructions:

- This power supply is designed for professional indoor systems. In operation, the power supply must not be accessible. It may be installed and put into service by qualified personnel only.
- The correct mounting position for optimal cooling performance must be observed. Observe powerderating. (see datasheet)
- Recycling: The unit contains elements that are suitable for re-cycling and components which need special disposal. You are therefore requested to make sure that the power supply will be recycled by the end of its service life.

Documents / Resources

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INSTALLATION INSTRUCTIONS
TML 20 Series - Switching Power Supply

Model	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Power (W)
TM20-05	100-240	5.0	3.0	15.0
TM20-12	100-240	12.0	1.5	18.0
TM20-15	100-240	15.0	1.0	15.0
TM20-24	100-240	24.0	0.6	14.4
TM20-36	100-240	36.0	0.4	14.4
TM20-48	100-240	48.0	0.3	14.4
TM20-50	100-240	50.0	0.3	15.0
TM20-60	100-240	60.0	0.25	15.0
TM20-75	100-240	75.0	0.2	15.0
TM20-90	100-240	90.0	0.17	15.0
TM20-100	100-240	100.0	0.15	15.0
TM20-120	100-240	120.0	0.125	15.0
TM20-150	100-240	150.0	0.1	15.0
TM20-180	100-240	180.0	0.083	15.0
TM20-200	100-240	200.0	0.075	15.0
TM20-240	100-240	240.0	0.063	15.0
TM20-280	100-240	280.0	0.054	15.0
TM20-300	100-240	300.0	0.05	15.0
TM20-360	100-240	360.0	0.042	15.0
TM20-400	100-240	400.0	0.038	15.0
TM20-480	100-240	480.0	0.031	15.0
TM20-500	100-240	500.0	0.03	15.0
TM20-600	100-240	600.0	0.025	15.0
TM20-750	100-240	750.0	0.02	15.0
TM20-900	100-240	900.0	0.017	15.0
TM20-1000	100-240	1000.0	0.015	15.0

1. Input Voltage: 100-240V AC, 50/60Hz.
2. Output Voltage: 5.0V, 12.0V, 15.0V, 24.0V, 36.0V, 48.0V, 50.0V, 60.0V, 75.0V, 90.0V, 100.0V, 120.0V, 150.0V, 180.0V, 200.0V, 240.0V, 280.0V, 300.0V, 360.0V, 400.0V, 480.0V, 500.0V, 600.0V, 750.0V, 900.0V, 1000.0V.
3. Output Current: 3.0A, 1.5A, 1.0A, 0.6A, 0.4A, 0.3A, 0.25A, 0.2A, 0.17A, 0.15A, 0.125A, 0.1A, 0.083A, 0.075A, 0.063A, 0.054A, 0.05A, 0.042A, 0.038A, 0.031A, 0.03A, 0.025A, 0.02A, 0.017A, 0.015A.
4. Power: 15.0W.
5. Efficiency: 80% (typical).
6. Regulation: 0.5% (typical).
7. Ripple: 10mV (typical).
8. Noise: 20dB (typical).
9. Temperature: 0°C to 70°C (typical).
10. Humidity: 5% to 95% (typical).
11. Shock: 1000g (typical).
12. Vibration: 10g (typical).
13. MTBF: 100,000 hours (typical).
14. RoHS: Compliant.
15. CE: Compliant.
16. UL: Compliant.
17. FCC: Compliant.
18. EN: Compliant.
19. IEC: Compliant.
20. VDE: Compliant.
21. TUV: Compliant.
22. BSI: Compliant.
23. DIN: Compliant.
24. ISO: Compliant.
25. JIS: Compliant.
26. KS: Compliant.
27. SAE: Compliant.
28. ASME: Compliant.
29. ASTM: Compliant.
30. AIAA: Compliant.
31. ASCE: Compliant.
32. ASHRAE: Compliant.
33. ASME: Compliant.
34. ASCE: Compliant.
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