imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

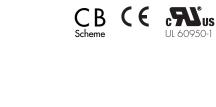
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TRACO[®] POWER

AC/DC Power Modules

TML 100C Series, 85-100 Watt



- Very compact power modules with screw terminal connection
- Active PFC, power factor >0.95 (230VAC), >0.99 (115 VAC)
- High efficiency up to 93% typ.
- Remote On/Off input

Features

- Adjustable output voltage ±5%
- LED output indicator
- Universal input 100-240 VAC nominal
- Low leakage current
- EMI meets EN 55032, class B
- Protection class II prepared



The TML 100C series modules are very compact 85–100 Watt power supplies in a fully encapsulated plastic case. Active power factor correction and high efficiency across full load range qualify these modules for installation in energy related products. They feature screw terminals for easy installation. The TML 100C series is accompanied by an international safety approval package for worldwide markets.

Models				
Order code	Output power max.	Output voltage	Output current max.	Efficiency
TML 100-112C	85	12 VDC	7080 mA	90 %
TML 100-115C	85	15 VDC	5660 mA	90 %
TML 100-124C	100	24 VDC	4200 mA	92 %
TML 100-148C	100	48 VDC	2100 mA	93 %

Full TML and TMLM Series Model Range

Series	Description	Datasheet		
TMLM 04	4 Watt, PCB mount, single and dual output models			
TMLM 05	5 Watt, PCB mount, single output models www.tracopower.com/products/tmlr			
TMLM 10	10 Watt, PCB mount, single output models			
TMLM 20	20 Watt, PCB mount, single output models (compact design)			
TML 20	20 Watt, PCB & chassis mount, single, dual and triple output models www.tracopower.com/products/tml.pdf			
TML 40	40 Watt, PCB & chassis mount, single, dual and triple output models			

TRACO[®] POWER

Input Specifications 100 - 240 VAC (universal input) Input voltage ranges – nominal - AC full range 90 - 264 VAC - DC Input 120 - 370 VDC 47 – 63 Hz Input frequency Input current at full load (115 VAC / 230 VAC nominal input) < 2.0 A / < 1.0 A max. Leakage current 0.5 mA max. EN 61000-3-2, Class A Harmonic limits – Power factor >0.99 at 115 VAC, >0.95 at 230 VAC **Output Specifications** Voltage set accuracy ±2% Output voltage adjustment range ±5% (see page 3) Minimum load 3% of rated max current (operation at lower load condition is safe but a higher output ripple will be experianced) Ripple and noise (20 MHz bandwidth) 12 VDC model: 120 mV max. 15 VDC model: 150 mV max. 24 VDC model: 200 mV max. 48 VDC model: 240 mV max. ±1% Regulation - input variation - load variation ±1% **Current limitation** 105% - 180% of rated output power. (automatic recovery) by Zener diode Overvoltage protection Short circuit protection indefinite (hiccup, automatic recovery) Hold-up time 10 ms min. (110VAC) 12 VDC model: 50'000 µF Max. capacitive load 15 VDC model: 40'000 µF 24 VDC model: 6'000 µF 48 VDC model: 560 µF **General Specifications** -25°C to +70°C **Temperature ranges** - Operating - Power derating above +50°C 3.75 %/K +95°C - Case max. - Storage (non operating) -25°C to +85°C Temperature coefficient 0.03 %/K Efficiency see model table Remote On/Off control On: open or connection to -Vout Off: external +5VDC Humidity (non condensing) 95 % rel max. Switching frequency (pulse width modulation PWM) 100-133 kHz 3'000 VAC Isolation voltage - Input/Output Reliability /calculated MTBF (MIL-HDBK-217F, at +25°C, ground benign) >250′000 h – Reach Environmental compliance www.tracopower.com/products/reach-declaration.pdf - RoHS RoHS directive 2011/65/EU

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



AC/DC Power Modules TML 100C Series 85-100 Watt

General Specifications

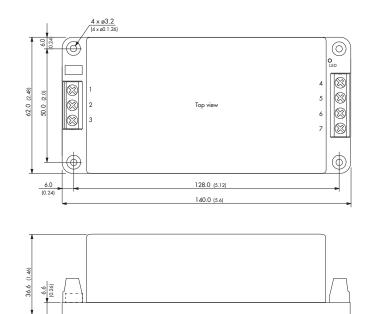
Electromagnetic compatibility (EMC), Emissions	EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008 EN 55032, class B	
Electromagnetic compatibility (EMC), Immunity – Electrostatic discharge ESD (air/contact) – RF field susceptibility – Electrical fast transient / burst immunity input – Surge immunity line – neutral – Surge immunity line – PE, neutral – PE – Immunity to conducted RF disturbances – Power frequency magnetic field immunity – Mains voltage dips and interruptions	EN 55024 : 201 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5, EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-11	0 ±2 kV / ±4 kV, criteria A 3 V/m, criteria A ±1 kV, criteria A ±1 kV, criteria A ±2 kV, criteria A 3 V, criteria A 1 A/m, criteria A 30 % 500 ms, criteria A 95 % 10 ms, criteria C
Protection class	class I and class II prepared	
Safety standards	IEC 60950-1 2nd ed +Am1 EN 60950-1:2006/A11:2009/A1:2010/A12:2011 UL 60950-1 2nd ed +Am1	
Safety approvals - UL/cUL 60950-1 (online certification) - Certification documents	CB certificate for IEC/EN 60950-1 www.ul.com File e188913 see supporting documents	
ng material plastic resin + fiberglass (UL 94V-0 re		perglass (UL 94V-0 rated)

Output voltage adjustment (Trim resistor [KOhm])

Trim up: Resistor from Trim to -Vout (conection 7-6) Trim down: Resistor from Trim to +Vout (conection 7-5)

output voltage 12 VDC 15 VDC 24 VDC 48 VDC +5% 85 95 90 85 nominal open open open open -5% 220 300 600 1500

Outline Dimensions



Connection		
con.	Output	
1	AC in (L)	
2	AC in (N)	
3	FG	
4	Remote On/Off	
5	+Vout	
6	-Vout	
7	Trim	

Weight: 440 g (11.5 oz)

Dimensions in[mm], () = Inches Tolerances = 0.5mm (0.02)

Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com

