

Features

- ◆ 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
- ◆ Adjustable output voltage $\pm 5\%$
- ◆ 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	www.tracopower.com/products/tmlm.pdf
TMLM 05	5 Watt, PCB mount, single output models	
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	

Input Specifications

Input voltage ranges	<ul style="list-style-type: none"> - nominal - AC full range - DC Input 	100 – 240 VAC (universal input) 90 – 264 VAC 120 – 370 VDC
Input frequency		47 – 63 Hz
Input current at full load (115 VAC / 230 VAC nominal input)		< 2.0 A / < 1.0 A max.
Leakage current		0.5 mA max.
Harmonic limits	<ul style="list-style-type: none"> - Power factor 	EN 61000-3-2, Class A >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 experienced)
Ripple and noise (20 MHz bandwidth)	12 VDC model: 15 VDC model: 24 VDC model: 48 VDC model:	120 mV max. 150 mV max. 200 mV max. 240 mV max.
Regulation	<ul style="list-style-type: none"> - input variation - load variation 	±1% ±1%
Current limitation		105% – 180% of rated output power. (automatic recovery)
Overvoltage protection		by Zener diode
Short circuit protection		indefinite (hiccup, automatic recovery)
Hold-up time		10 ms min. (110VAC)
Max. capacitive load	12 VDC model: 15 VDC model: 24 VDC model: 48 VDC model:	50'000 µF 40'000 µF 6'000 µF 560 µF

General Specifications

Temperature ranges	<ul style="list-style-type: none"> - Operating - Power derating above +50°C - Case max. - Storage (non operating) 	-25°C to +70°C 3.75 %/K +95°C -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
Isolation voltage	<ul style="list-style-type: none"> - Input/Output 	3'000 VAC
Reliability /calculated MTBF (MIL-HDBK-217F, at +25°C, ground benign)		>250'000 h
Environmental compliance	<ul style="list-style-type: none"> - Reach - RoHS 	www.tracopower.com/info/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.

General Specifications

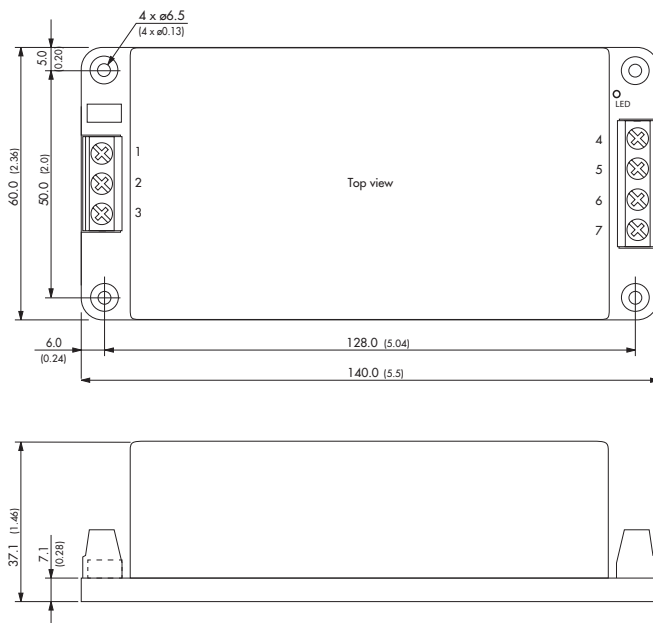
Electromagnetic compatibility (EMC), Emissions	EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008 EN 55032, class B
Electromagnetic compatibility (EMC), Immunity	EN 55024 : 2010 EN 61000-4-2 ±2 kV / ±4 kV, criteria A EN 61000-4-3 3 V/m, criteria A EN 61000-4-4 ±1 kV, criteria A EN 61000-4-5, ±1 kV, criteria A EN 61000-4-5 ±2 kV, criteria A EN 61000-4-6 3 V, criteria A EN 61000-4-8 1 A/m, criteria A EN 61000-4-11 30 % 500 ms, criteria A 95 % 10 ms, criteria A 95 % 2500 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	CB certificate for IEC/EN 60950-1 www.ul.com File e188913 www.tracopower.com/overview/tml100c
Casing material	plastic resin + fiberglass (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 (15.5 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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9