

Measures: 5.60 x 2.48 x 1.46"







## **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 ±5%
- ◆ LED output indicator
- ◆ Universal input 100-240 VAC nominal

http://power.sager.com/traco-power-TML100C-power-supply.html

- ♦ Low leakage current
- ♦ EMI meets EN 55022, 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	Output voltage	Output current	Efficiency
	max.		max.	115 VAC / 230 VAC
TML 100-112C	85	12 VDC	7000 mA	89.5 % / 91.0 %
TML 100-115C	85	1 <i>5</i> VDC	5660 mA	90.0 % / 91.5 %
TML 100-124C	100	24 VDC	4200 mA	92.5 % / 93.5 %
TML 100-148C	100	48 VDC	2100 mA	93.0 % / 94.5 %

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		



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Input voltage ranges	- nominal		100 – 240 VAC (universal input)	
inpor rollage rallyes	– AC full range		90 – 240 VAC (universal input)	
	– DC Input		120 – 370 VDC	
Input frequency	out frequency		47 – 63 Hz	
Input current at full load (11	5 VAC / 230 VAC nominal input)		< 2.0  A / < 1.0  A max.	
Leakage current			0.5 mA max.	
Harmonic limits	– Power factor		EN 61000-3-2, Class A >0.99 at 115 VAC, >0.95 at 230 VAC	
Output Specification	s			
Voltage set accuracy			±2 %	
Output voltage adjustment	range		<b>±5</b> % (see page 3)	
Minimum load		3% of rated max current (operation at lower load condition is safe but a higher output rippl will be experianced)		
Ripple and noise (20 MHz	bandwidth)	12 VDC model:		
		15 VDC model:		
		24 VDC model: 48 VDC model:		
Regulation	- input variation		±1%	
	- load variation		±1%	
Current limitation			105% – 180% of rated output power.	
			(automatic recovery)	
Overvoltage protection			by Zehner 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:	6′000 μF 1′000 μF	
General Specificatio	ns			
Temperature ranges	- Operating		−25°C to +70°C	
	- Power derating above +50°C		2.0 %/K	
	- Case max.		+95°C -25°C to +85°C	
Temperature coefficient	- Storage (non operating)		0.03 %/°C	
Efficiency			see model table	
Remote On/Off control		On: open or connection to -Vout		
Remote On/Off confroi		Off: external +5VDC		
Humidity (non condensing)		95 % rel max.		
Switching frequency (pulse width modulation PWM)		100-133 kHz		
Isolation voltage - Input/Output		3′000 VAC		
Reliability /calculated MTBF (MIL+HDBK-217F, at +25°C, ground benign)		>250′000 h		
Environmental compliance - Reach - RoHS		www.tracopower.com/products/tml-reach.pdf RoHS directive 2011/65/EU		

 $\label{eq:local_problem} \mbox{All specifications valid at nominal input voltage, full load and $+25^{\circ}$C after warm-up time unless otherwise stated.}$ 



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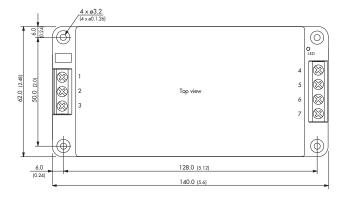
General Specifications		
Electromagnetic compatibility (EMC), Emissions	EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008 EN 55022, class B	
Electromagnetic compatibility (EMC), Immunity  - Electrostatic discharge ESD (air/contact)  - RF field susceptibility  - Electrical fast transient / burst immunity 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 61000-4-6 EN 61000-4-8 EN 61000-4-11	±2 kV / ±4 kV, criteria A 3 V/m, criteria A ±1 kV, criteria A
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 - UL/cUL 60950-1 (online certification)	www.tracopower.com/products/tml100c-cb.pdf www.ul.com File e188913	
Casing material	plastic resin + fil	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)