

Features

- ◆ Encapsulated power supplies with increased power density
- ◆ Replaces TML 15 and TML 30 series
- ◆ PCB mount or chassis mount with screw terminals
- ◆ Single, dual and triple output models
- ◆ Universal input 90–264 VAC, 47–440 Hz
- ◆ EMI meets EN 55022, class B and FCC, level B
- ◆ Protection class II for TML 40 models
- ◆ Short circuit and overload protection
- ◆ 3-year product warranty



Also see:

TMLM Series, 4 to 20 Watt

highest power density, PCB mount.

www.tracopower.com/products/tmlm.pdf

Reference datasheet for primary TML models, see:

www.tracopower.com/products/tml-primary.pdf

(not recommended for new design in)

The TML series are ultra compact AC/DC power supplies in a fully encapsulated plastic case. They feature versions with screw terminals for easy installation or with solder pins for direct PCB mounting. International safety approvals qualify this product for worldwide markets. The TML series AC/DC modules offer an interesting solution for many space critical applications in commercial and industrial electronic equipment.

20 Watt Models

Order code		Output power max.	Output 1	Output 2	Output 3
PCB mount	Chassis mount				
TML 20103	TML 20103C	14.9 W	3.3 VDC/4500 mA		
TML 20105	TML 20105C	20 W	5.0 VDC/4000 mA		
TML 20112	TML 20112C		12 VDC/1670 mA		
TML 20115	TML 20115C		15 VDC/1340 mA		
TML 20124	TML 20124C		24 VDC/840 mA		
TML 20205	TML 20205C		+5.0 VDC/2000 mA	-5.0 VDC/2000 mA	
TML 20212	TML 20212C		+12 VDC/833 mA	-12 VDC/833 mA	
TML 20215	TML 20215C	+15 VDC/667 mA	-15 VDC/667 mA		
TML 20512	TML 20512C	5 VDC/2800 mA	+12 VDC/250 mA	-12 VDC/250 mA	
TML 20515	TML 20515C	5 VDC/2800 mA	+15 VDC/200 mA	-15 VDC/200 mA	

40 Watt Models

Order code		Output power max.	Output 1	Output 2	Output 3
PCB mount	Chassis mount				
TML 40103	TML 40103C	26.4 W	3.3 VDC/8000 mA		
TML 40105	TML 40105C	40 W	5.0 VDC/8000 mA		
TML 40112	TML 40112C		12 VDC/3333 mA		
TML 40115	TML 40115C		15 VDC/2666 mA		
TML 40124	TML 40124C		24 VDC/1667 mA		
TML 40205	TML 40205C		+5.0 VDC/4000 mA	-5.0 VDC/4000 mA	
TML 40212	TML 40212C		+12 VDC/1666 mA	-12 VDC/1666 mA	
TML 40215	TML 40215C		+15 VDC/1333 mA	-15 VDC/1333 mA	
TML 40252	TML 40252C		*5.0 VDC/5000 mA	*12 VDC/1250 mA	
TML 40254	TML 40254C		*5.0 VDC/5000 mA	*24 VDC/625 mA	
TML 40512	TML 40512C		*5.0 VDC/5000 mA	+12 VDC/600 mA	-12 VDC/600 mA
TML 40515	TML 40515C	*5.0 VDC/5000 mA	+15 VDC/500 mA	-15 VDC/500 mA	

* Output floating

Input Specifications

Input voltage ranges	- AC input - DC Input	90 – 264 VAC 100 – 375 VDC
Input frequency		47 – 440 Hz
Input current at full load (115 VAC / 230 VAC nominal input)	TML 20 models: TML 40 models:	400 mA / 270 mA max. 860 mA / 460 mA max.
Leakage current		0.25 mA max.
External fuse (required)	TML 20 models: TML 40 models:	2.0 A slow blow type (recommendation) 1.5 A slow blow type (recommendation)

Output Specifications

Voltage set accuracy	TML 20 models: TML 40103 model: TML 40 single and symetric dual output models: TML 40 asymmetric dual and triple output models:	$\pm 2\%$ $\pm 3\%$ $\pm 2\%$ $\pm 3\%$ for output 1, $\pm 5\%$ for output 2&3
Minimum load	TML 20 single and dual output models: TML 20 triple output models: TML 40 single output models: TML 40 symetric dual output models: TML 40 asymmetric dual and triple output models:	0 % 10 % (each output) 1 % 10 % (each output) 25 % (each output) operation at lower load condition will not damage these power supplies, however, they may not meet all listed specifications.
Ripple and noise (20 MHz bandwidth)	TML 20 models: TML 40103 model: TML 40 other models:	<0.7 % of V_{out} + 90 mV [Vp-p] <50 mVp-p <1 % of V_{out} [Vp-p]
Regulation – Input variation	single and symetric dual output models: TML 20 triple output models: TML 40 asymmetric dual and triple output models:	0.5 % (each output) 1 % for output 1, 5 % for output 2&3 0.5 % for output 1, 5 % for output 2&3

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