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AC/DC Power Modules

TMS Series, 6 to 25 Watt

Features

- Compact AC/DC power supply modules
- Fully encapsulated plastic package
- Universal input 85–264 VAC, 50/60 Hz
- High efficiency
- Low ripple and noise
- Overload protection
- EMI meets EN 55022, class B and FCC, level B
- 3 package styles available:
  - for PCB Mount with solder pins
  - for chassis mount with FASTON-tabs
  - for chassis mount with screw terminals
- 3-year product warranty

end of life



The TMS series switching power supplies offers high power density in a low profile package. This makes these modules the best choice for all space critical applications. A further feature is the easy installation provided by flexible connection systems (solderpins, terminalblock, FASTON tabs).
EMC specifications and compliance with international safety standards qualify the product for worldwide use. SMD construction and industrial quality grade components guarantee a high reliability of these power modules.

Models

Order Code			Output Power	Output 1	Output 2
PCB-mounting with solder pins	Chassis mounting with FASTON tabs	Chassis mounting with screw terminals			
TMS 06105			6 Watt	5 VDC/1200 mA	
TMS 06112				12 VDC/500 mA	
TMS 06115				15 VDC/400 mA	
TMS 06124				24 VDC/250 mA	
TMS 06212				+12 VDC/250 mA	–12 VDC/250 mA
TMS 06215				+15 VDC/200 mA	–15 VDC/200 mA
TMS 10105	TMS 10105F		10 Watt	5 VDC/2000 mA	
TMS 10112	TMS 10112F			12 VDC/900 mA	
TMS 10115	TMS 10115F			15 VDC/700 mA	
TMS 10124	TMS 10124F			24 VDC/450 mA	
TMS 10212	TMS 10212F			+12 VDC/450 mA	–12 VDC/450 mA
TMS 10215	TMS 10215F			+15 VDC/350 mA	–15 VDC/350 mA
TMS 15105	TMS 15105F	TMS 15105C	15 Watt	5 VDC/3000 mA	
TMS 15112	TMS 15112F	TMS 15112C		12 VDC/1300 mA	
TMS 15115	TMS 15115F	TMS 15115C		15 VDC/1000 mA	
TMS 15124	TMS 15124F	TMS 15124C		24 VDC/650 mA	
TMS 15212	TMS 15212F	TMS 15212C		+12 VDC/ 650 mA	–12 VDC/650 mA
TMS 15215	TMS 15215F	TMS 15215C		+15 VDC/ 500 mA	–15 VDC/500 mA
TMS 25105	TMS 25105F	TMS 25105C	25 Watt*	5 VDC/4600 mA	
TMS 25112	TMS 25112F	TMS 25112C		12 VDC/2000 mA	
TMS 25115	TMS 25115F	TMS 25115C		15 VDC/1600 mA	
TMS 25124	TMS 25124F	TMS 25124C		24 VDC/1000 mA	
TMS 25212	TMS 25212F	TMS 25212C		+12 VDC/1000 mA	–12 VDC/1000 mA
TMS 25215	TMS 25215F	TMS 25215C		+15 VDC/800 mA	–15 VDC/800 mA

* 10 % power reduction at 115 VAC operation

Input Specifications

Input voltage range			85 – 264 VAC (110–375 VDC)
Input frequency			47 – 63 Hz
External fuse (required)			1 A slow blow type (recommendation)

Output Specifications

Voltage set accuracy			±2 %
Regulation	– Input variation – Load variation (10–90%)		0.4 % max.
		single output models:	1 % max.
		dual output models:	2 % typ./5 % max. (symmetric load)
Ripple and noise (20Mhz bandwidth)			100 mV pp typ.
Overload protection by current limit at			>130 % Inom. foldback, automatic recovery (long therm short circuit operation may cause damage to the unit)

General Specifications

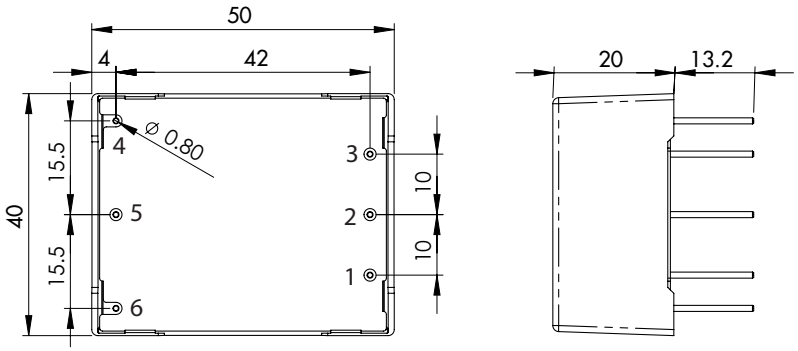
Temperature ranges	– Operating – Case temperature – Storage (non operating)		–25°C to +60°C ambient temp. max. +90°C max. –25°C to +105°C
Derating		5 Vout models: all other models:	2.5 %/°K above +40°C 5 %/°K above +50°C
Temperature coefficient			0.02 %/°C
Efficiency			78 % typ.
Humidity (non condensing)			85 % rel max.
Switching frequency			100 kHz typ.
Hold-up time	– Vin = 115 VAC – Vin = 230 VAC		20 ms typ. 100 ms typ.
I/O isolation voltage			3'000 VAC
Leakage current			0.3 mA RMS typ./230 VAC/50 Hz
EMI/RFI conducted			EN 55022, level B, FCC Part 15 level B
EMC compliance	– Electrostatic discharge ESD – RF field susceptibility – Electrical fast transients/bursts on mainsline – Surge		IEC/EN 61000-4-2 level 3 6 kV/8 kV IEC/EN 61000-4-3 10 V/m IEC/EN 61000-4-4 level 3 2 kV IEC/EN 61000-4-5 level 3 1 kV/2 kV
Safety standards			UL 60950-1, IEC/EN 60950-1
Safety approvals	– UL/cUL 60950-1 – CB report (IEC 60950-1, 2nd edition)		www.ul.com -> certifications -> File e141988 www.tracopower.com/products/tms06-cb.pdf www.tracopower.com/products/tms10-cb.pdf www.tracopower.com/products/tms15-cb.pdf www.tracopower.com/products/tms25-cb.pdf
Environmental compliance	– Reach – RoHS		www.tracopower.com/products/tms-reach.pdf RoHS directive 2011/65/EU
Casing material			CELANEX (UL 94V-0 rated)
Reliability, calculated MTBF	(MIL-HDBK-217F, at +25°C, ground benign)		>250'000 h

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

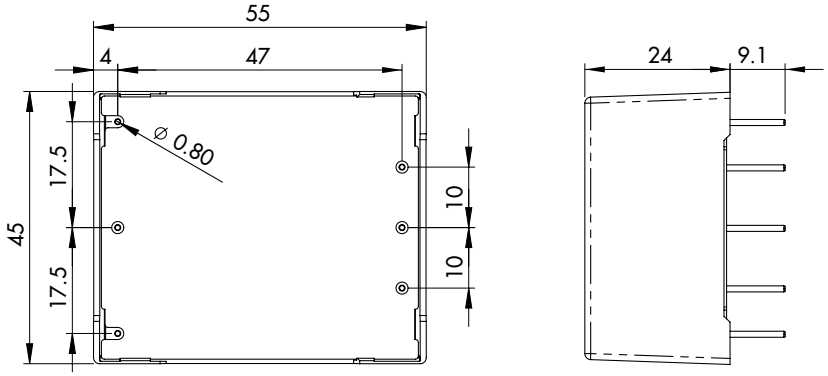
Outline Dimensions

PCB-mounting with solder pins

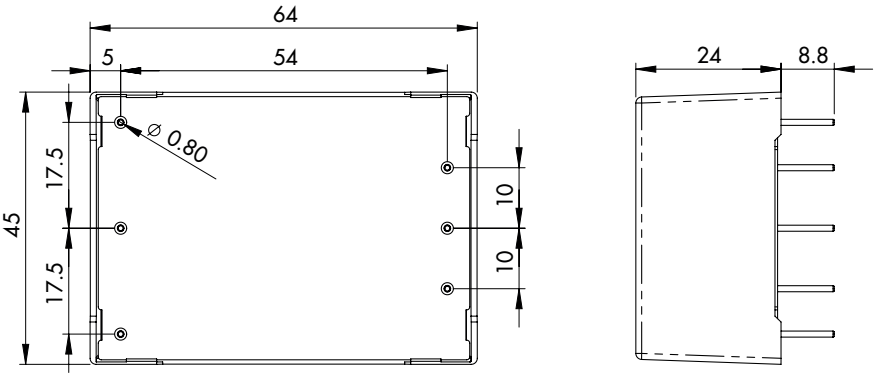
TMS 6 Models



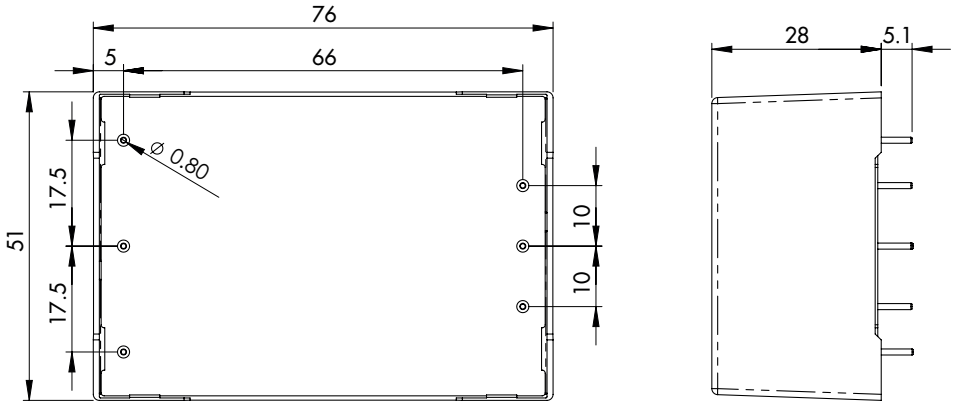
TMS 10 Models



TMS 15 Models



TMS 25 Models



Weight

TMS 6:45 g (1.6 oz)
TMS 10:75 g (2.7 oz)
TMS 15:95 g (3.4 oz)
TMS 25:135 g (4.8 oz)

Pin Out		
Pin	**Single**	**Dual**
1	–V out	–V out
2	No pin	Common
3	+V out	+V out
4	AC in	AC in
5	AC in	AC in
6	FG	FG

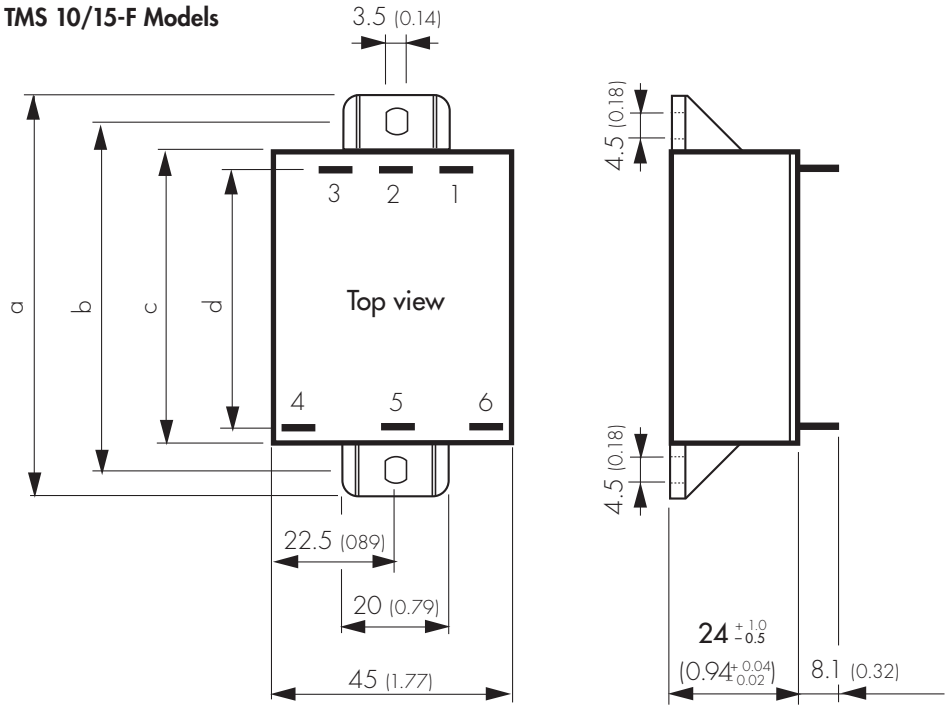
FG = field ground

Dimensions in[mm]
Tolerances = 0.5mm
Pin pich tolerance = 0.2 mm

Outline Dimensions

Chassis mounting with FASTON- abs

TMS 10/15-F Models

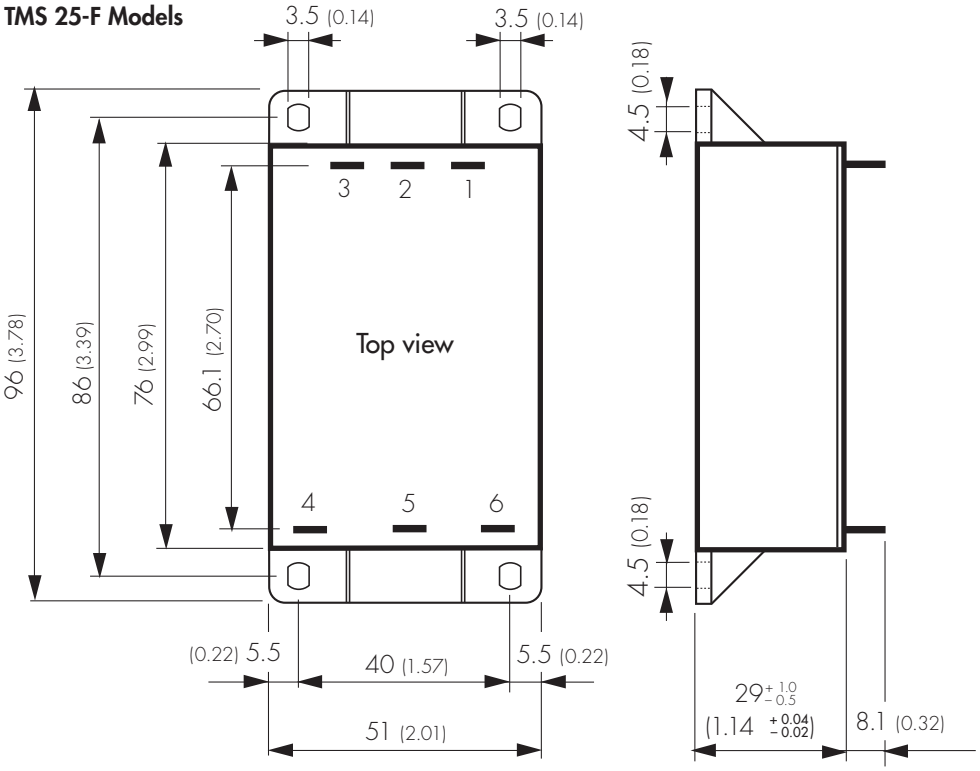


Faston no 187 / 4.75 x 0.51mm (0.187 x 0.02)

Pin Out		
	TMS 10	TMS 15
a	75 (2.95)	84 (3.31)
b	65 (2.56)	74 (2.91)
c	55 (2.17)	64 (2.52)
d	47.6 (1.87)	55.1 (2.17)

Weight **TMS 10-F:** 80 g (2.8 oz)
TMS 15-F: 100 g (3.5 oz)
TMS 25-F: 150 g (5.3 oz)

TMS 25-F Models



Faston no 187/4.75 x 0.51mm (0.187 x 0.02)

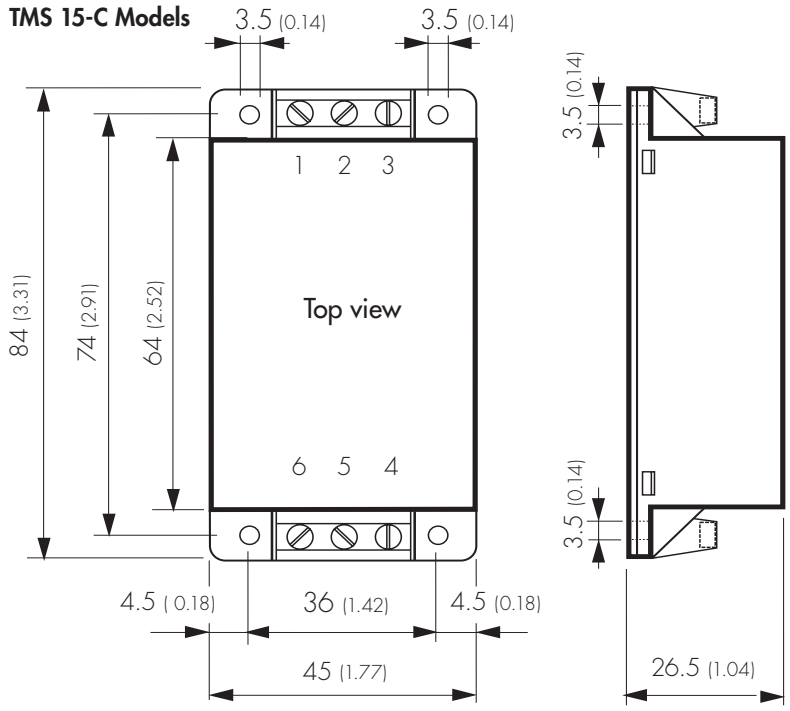
Pin Out		
Pin	Single	Dual
1	–V out	–V out
2	No Tab	Common
3	+V out	+V out
4	AC in	AC in
5	AC in	AC in
6	FG	FG

FG = field ground

Outline Dimensions

Chassis mounting with screw terminals

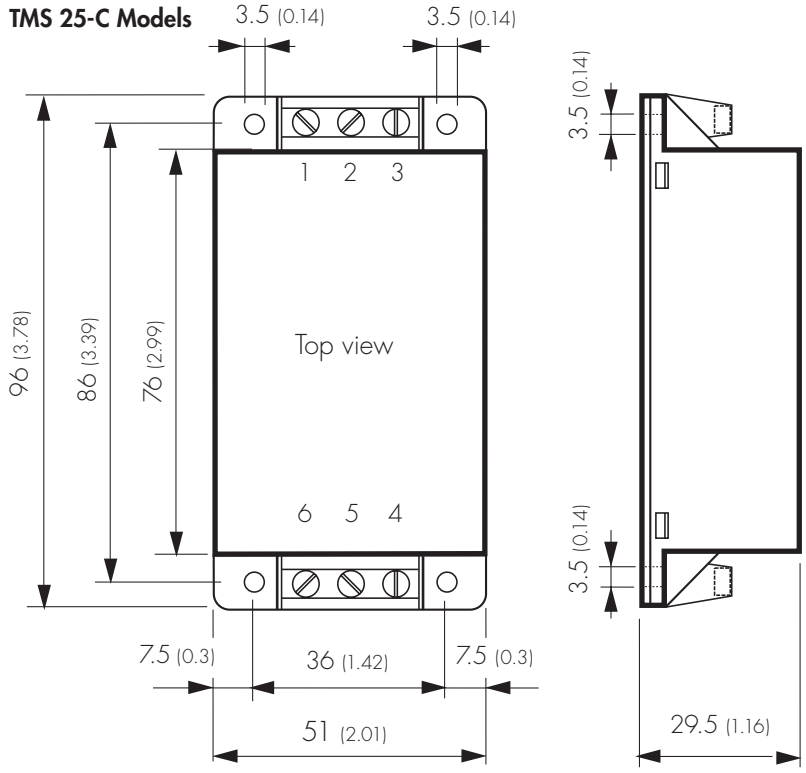
TMS 15-C Models



Input and output screw terminal block: GMKDS 1.5/3-7.62 (Phoenix)

Weight TMS 15-C: 105 g (3.7 oz)
TMS 25-C: 165 g (5.8 oz)

TMS 25-C Models



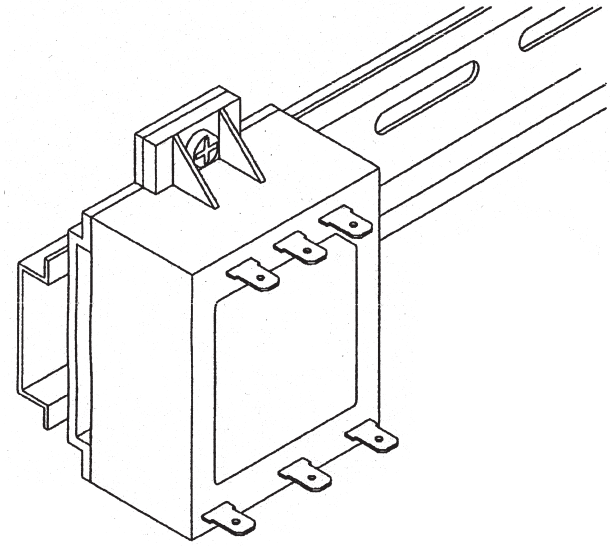
Input and output screw terminal block: GMKDS 1.5/3-7.62 (Phoenix)

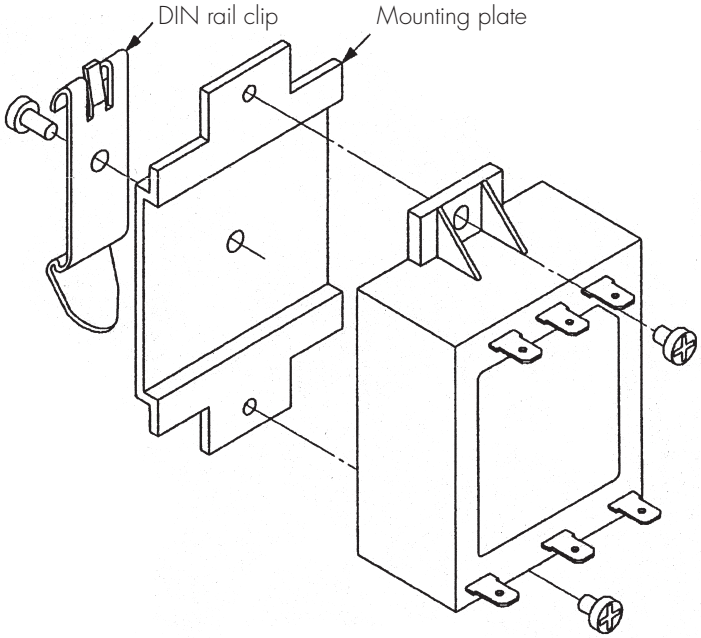
Pin Out		
Pin	**Single**	**Dual**
1	–V out	–V out
2	No function	Common
3	+V out	+V out
4	AC in	AC in
5	AC in	AC in
6	FG	FG

FG = field ground

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

DIN-Rail Mount





Order Code		
Mounting kit for:	FASTON tabs version	Screw terminals version
TMS 10 models	**TMS-DM10**	---
TMS 15 models	**TMS-DM15**	**TMS-DM15C**
TMS 25 models	**TMS-DM25**	**TMS-DM25C**

Mounting kit contains mounting plate, clip and screws

Specifications can be changed any time without notice.

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