



### Features

- ◆ Fully encapsulated low profile plastic casing in PCB- or chassis mount version
- ◆ 2 x MOPP Medical safety according to AAMI/ANSI ES 60601-1:2005(R) and IEC/EN 60601-1 3rd edition
- ◆ IT and industrial safety according to IEC/UL 60950-1 and UL 508
- ◆ Ready to meet ErP directive <0.3W no load power consumption
- ◆ -40°C start-up temperature
- ◆ Safety class II prepared
- ◆ Protection against over-temperature overload and short circuit
- ◆ 3-year product warranty



Also see:

**TMM 24 Series, 24 Watt**

[www.tracopower.com/products/tmm24.pdf](http://www.tracopower.com/products/tmm24.pdf)

**TMM 60 Series, 60 Watt**

[www.tracopower.com/products/tmm60.pdf](http://www.tracopower.com/products/tmm60.pdf)

The TMM 40 Series of fully encapsulated 40 Watt AC/DC power supply modules feature a reinforced/double I/O isolation system according to latest medical safety standards 60601-3 3rd edition for 2 x MOPP (Means Of Patient Protection). The high efficiency and the use of highest grade components make the units suitable for an operating temperature range of -40°C to +60°C while it goes up to 75°C with 50% load derating. EMI/EMC characteristics and the safety approval package qualify these modules not only for medical devices but also for demanding applications in transportation systems and for equipment in industrial an commercial environment.

Order code		Output power max.	Output 1	Output 2	Efficiency
PCB mount	Chassis mount				
TMM 40105	TMM 40105C	40 W	5.0 VDC / 8000 mA		81 %
TMM 40112	TMM 40112C		12 VDC / 3330 mA		84 %
TMM 40115	TMM 40115C		15 VDC / 2660 mA		85 %
TMM 40124	TMM 40124C		24 VDC / 1660 mA		84 %
TMM 40212	TMM 40212C		+12 VDC / 1660 mA	-12 VDC / 1660 mA	84 %
TMM 40215	TMM 40215C		+15 VDC / 1330 mA	-15 VDC / 1330 mA	85 %

### Input Specifications

Input voltage ranges	– nominal – AC input – DC Input	100 – 240 VAC 85 – 264 VAC 120 – 370 VDC
Input frequency		47 – 440 Hz
Input current at full load (115 VAC / 230 VAC nominal input)	5 VDC models: other models:	710 mA / 430 mA typ. 690 mA / 415 mA typ.
Leakage current		80 µA typ.
No-Load power consumption		<0.3 W
External input fuse required (recommended value)		3 A slow blow type or characteristic C

### Output Specifications

Voltage set accuracy		±2% typ.
Minimum load		no minimum load required
Regulation	– Input variation – Load variation (0 - 100%)	single output models: 0.5% typ. 1.0% typ. dual output models: 2.0% typ.
Temperature coefficient		0.02 %/K
Ripple and noise (20 MHz bandwidth)	5.0 VDC model: other models:	1.8% of Vout [Vp-p] max. 1.3% of Vout [Vp-p] max.
Current limitation		above 105 % of rated output current. hiccup, auto recovery
Overvoltage protection by Zener diode (main output only)		120 % of Vout typ.
Short circuit protection		continuous, automatic recovery
Max. capacitive load	5.0 VDC model: 12 VDC model: 15 VDC model: 24 VDC model: ±12 VDC model: ±15 VDC model:	8000 µF 3900 µF 3900 µF 680 µF 1500 µF (each output) 1000 µF (each output)

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