

**FEATURES**

- 2" x 4" x 1.18" Compact Size
- Open PCB, L-Bracket & Cover Available
- 90~264 VAC Universal Input
- Single, Dual, or Triple Outputs
- Low Earth Leakage Current
- Level B Emissions

**MODELS LIST**

Product No.	OUTPUT #1				OUTPUT #2				OUTPUT #3				Max. Output Power
	Voltage	Min. Current	Max. Current	Tol.	Voltage	Min. Current	Max. Current	Tol.	Voltage	Min. Current	Max. Current	Tol.	
TMC40-S05	5V	0A	8.0A	±2%	–	–	–	–	–	–	–	–	40W
TMC40-S12	12V	0A	3.5A	±2%	–	–	–	–	–	–	–	–	42W
TMC40-S15	15V	0A	3A	±2%	–	–	–	–	–	–	–	–	45W
TMC40-S24	24V	0A	2A	±2%	–	–	–	–	–	–	–	–	48W
TMC40-S48	48V	0A	1A	±2%	–	–	–	–	–	–	–	–	48W
TMC40-D23	+5V	0.5A	6A	±3%	+12V	0.1A	2A	±5%	–	–	–	–	40W
TMC40-D25	+5V	0.5A	6A	±3%	+24V	0.1A	1A	±5%	–	–	–	–	40W
TMC40-T31	+5V	0.5A	6A	±3%	+12V	0.1A	2A	±5%	-12V	0A	0.3A	±4%	40W
TMC40-T31-3	+3.3V	0.8A	6A	±3%	+5V	0.1A	2A	±5%	+12V	0A	0.3A	±4%	30W
TMC40-T31-5	+5V	0.5A	6A	±3%	+3.3V	0A	1.5A	±5%	+12V	0A	0.3A	±4%	30W
TMC40-T32	+5V	0.5A	6A	±3%	+15V	0.1A	1.5A	±5%	-15V	0A	0.3A	±4%	40W
TMC40-T39	+5V	0.5A	6A	±3%	+24V	0.1A	1A	±5%	-12V	0A	0.3A	±4%	40W

NOTES:

- 1) Safety approvals are for PCB form only. To order L-bracket version, add suffix "B", e.g. TMC40-S12B. To order enclosed version, add suffix "C", e.g. TMC40-T32C.
- 2) The output voltages of a multiple output model may go outside of the listed tolerance when an output load current is beyond its limits.

INPUT & OUTPUT SPECIFICATIONS

Input Voltage Range	90~264 VAC	Overvoltage Protection	Provided on output #1 only; set at 112-132% of its nominal output voltage
Input Frequency	47~63 Hz	Overcurrent Protection	All outputs are protected to short-circuit conditions
Input Current	0.9A rms @ 100 VAC 0.5A rms @ 240 VAC	Temperature Coefficient	±0.04%/°C max.
Inrush Current	25A @ 115 VAC or 50A @ 230 VAC, at 25°C cold start	Transient Response	Max. excursion of 4% or better on all models, recovering to 1% of final value within 500 µs after a 25% step load change
Earth Leakage Current	150 µA max. @ 264 VAC, 63Hz		
Output Power Ratings	See rating table		
Tolerance	See rating table		
Ripple and Noise*	100 mVp-p on 3.3V & 5V models; 1% peak-to-peak on other models		

* Measured with 20 MHz BW at rated line voltage and output load ranges, with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor across the output.

TMC40 Series

30-48 Watts Medical & ITE AC/DC Power Supplies

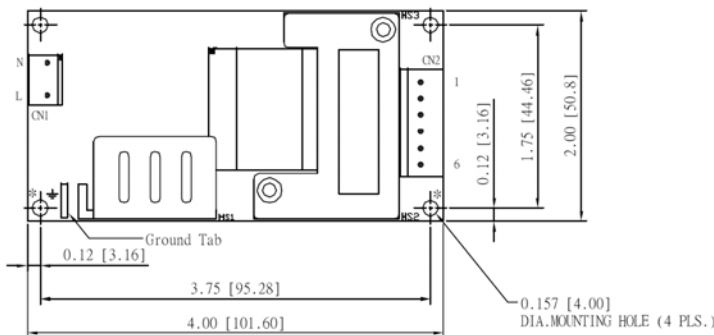
GENERAL SPECIFICATIONS

Switching Frequency	62±5 KHz
Efficiency	80~88% typical, except 75% on TMC40-T31-3 and TMC40-T31-5
Hold-up Time	12 ms minimum at 110 VAC
Line Regulation	±0.5% max. at full load
Operating Temperature	-10°C to +70°C
Derating	Derate from 100% @ +50°C linearly to 50% @ +70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	5% to +95% non-condensing
Withstand Voltage	4,000 VAC from input to output 1,500 VAC from input to ground 500 VAC from output to ground
MTBF	400K hours minimum at full load, 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCES

IEC 60601-1-2	EMC & Immunity performance
EN 55011, EN 55022	Class B conducted and radiated
FCC, VCCI	Class B conducted and radiated
EN 61000-3-2	Harmonic distortion, Class A & D
EN 61000-3-3	Line flicker
EN 61000-4-2	ESD, ±8 KV air and ±6 KV contact
EN 61000-4-3	Radiated immunity, 3V/m
EN 61000-4-4	Fast transient/burst, ±2 KV
EN 61000-4-5	Surge, ±1 KV diff., ±2 KV com.
EN 61000-4-6	Conducted immunity, 3 Vrms
EN 61000-4-8	Magnetic field immunity, 3A/m
EN 61000-4-11	Voltage dip immunity, 30% reduction for 500 ms, 60% reduction for 100 ms, >95% reduction for 10 ms
Safety Standards	UL 60601-1, EN 60601-1, CSA C22.2 No. 601.1, UL 60950-1, EN 60950-1, CSA C22.2 No. 60950-1,
Agency Approvals	UL, cUL, TUV, CB, CE (LVD)
Other Compliance	RoHS

MECHANICAL SPECIFICATIONS



DC OUTPUT CONNECTOR (CN2)			
PIN	SINGLE	DUAL	TRIPLE
1	OUTPUT	OUTPUT #1	OUTPUT #1
2	OUTPUT	OUTPUT #1	OUTPUT #1
3	RETURN	COMMON RETURN	COMMON RETURN
4	RETURN	COMMON RETURN	COMMON RETURN
5	N.C.	N.C.	OUTPUT #3
6	N.C.	OUTPUT #2	OUTPUT #2

NOTES:

1. Dimensions: inches [mm]
2. Tolerance: 0.02 [0.5] maximum
3. Connector CN1: Molex header 09-65-2038 or equivalent, mating with Molex housing 09-50-1031 or equivalent.
4. Connector CN2: Molex header 09-65-2068 or equivalent, mating with Molex housing 09-50-1061 or equivalent.
5. Ground tab is 0.25 [6.35] x 0.032 [0.8]
6. To ensure compliance with level B emissions, connect the two * marked mounting holes with metallic standoffs to chassis.
7. Weight: 205 grams (0.45 lb.) approx.