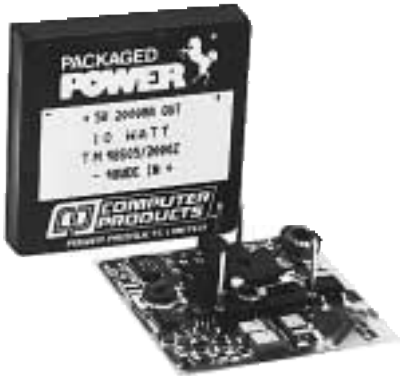


TM and TMH SERIES

Single and dual output



- 2.0 x 2.0 x 0.4 inch package
- TMH version certified to IEC950
- 18-36VDC and 36-72VDC input
- Typical efficiency 75%
- Isolated outputs
- No derating to 70°C

The TM and TMH Series of 5 to 15 watt DC/DC converters from Computer Products are packaged in the industry standard 2 x 2 inch case. The TMH version is certified to IEC950 and has an isolation voltage of 3750V. This series combines three high performance features - wide input voltage range, high efficiency, and high power density. In addition to this, all outputs are regulated and isolated from the input. This advance in DC/DC converters is made possible by implementing a 150kHz switching design in surface-mount technology. With input voltage ranges of 18-36V, 36-72V and 75% typical efficiency these devices are ideally suited for on board logic or analog circuits supplied by telecom distributed power voltages, cellular and telecommunications systems.

[2 YEAR WARRANTY]

SPECIFICATION All specifications are typical at nominal input, full load at 25°C unless otherwise stated

OUTPUT SPECIFICATIONS		
Voltage accuracy		±1.0%
Line regulation	LL to HL, all outputs	±0.5% max.
Load regulation	FL to NL, single output FL to NL, dual output	±1.0% max. ±3.0% max.
Ripple and noise	5Hz to 20MHz	100mV pk-pk max. 15mV rms
Temperature coefficient		±0.02%/°C max.
Overvoltage protection		Clamp
Short circuit protection		Indefinite
Short circuit current		3.5A max. @ 10W
INPUT SPECIFICATIONS		
Input voltage range	24VDC 48VDC	18 to 36VDC 36 to 72VDC
Input filter	See Note 4	Pi type
Input ripple current		50mA pk-pk
No load input current		30mA

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS		
Radiated noise	EN55022, EN55011, FCC	Level B
GENERAL SPECIFICATIONS		
Efficiency		75% typical
Isolation voltage	Input/output, TM Input/output, TMH	500VDC 3750VAC
Switching frequency	Fixed, 10W model Fixed, 5W model	150kHz 70kHz
Approvals and standards	Safety (TMH only)	EN60950, IEC950
Case material	TM TMH	Black coated metal with non-conductive base Non-conductive black plastic
Case flammability		UL94V-0
Weight		40g (1.41oz)
MTBF	MIL-HDBK-217E	400,000 hours
ENVIRONMENTAL SPECIFICATIONS		
Thermal performance	Operating ambient Case Non-operating Derating Cooling	-25°C to +70°C +95°C -40°C to +105°C None required Free-air convection cooled

International Safety Standard Approvals



IEC950 Reg. File Number CO24241 (TMH)

