



FEATURES

- PCB Mount Switching Power Modules
- Fully Encapsulated Plastic Case
- 90-264 VAC, 47-440Hz Universal Input
- Regulated Output
- Low Ripple and Noise
- Class II Construction
- CE, CB, UL, cUL, Approvals



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

ELECTRICAL SPECIFICATIONS

Input Voltage Range	90~264 VAC or 100~375 VDC
Input Frequency	47~440Hz
Input Current	860mA max. @ 115 VAC 460mA max. @ 230 VAC
Inrush Current	10A max. @ 115 VAC 20A max. @ 230 VAC
Leakage Current	0.1mA max. @ 115 VAC 0.2mA max. @ 230 VAC
Recommended External Fuse	3.15A slow blow type
Output Wattage	40W max.
Output Voltage	See tables
Voltage Accuracy, Single/Dual	±2% max.
Triple	±5% max.
Minimum Load, Single	1%
Dual	10%
Triple	25%
Line Regulation, Single/Dual	0.5% typ.
Triple	5% typ.
Ripple & Noise*, 3.3V	50mV of Vout
5V~24V	1% of Vout
Hold-up Time	18ms min.
Switching Frequency	132KHz
Recommended External Fuse	3.15A slow blow type
Overcurrent Protection	Above 105% rated output power
Overvoltage Protection	Zener diode clamp
Short-circuit Protection	Hiccup mode, indefinite, auto-recovery
Over Temperature Protection	100°C
Input-Output Isolation	4000VAC

*Ripple & Noise are measured at 20MHz of bandwidth with 0.1µF & 47µF capacitors in parallel.

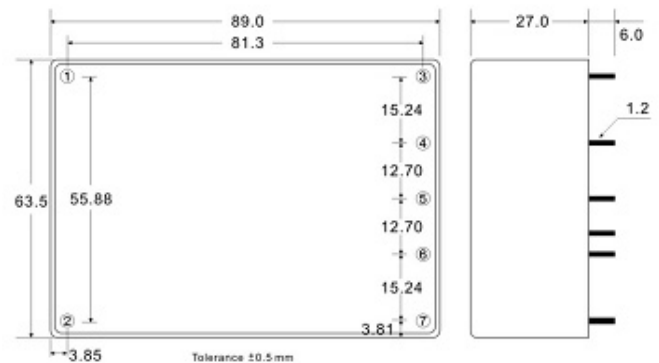
EMC & SAFETY STANDARDS

Safety Standards	EN60601-1
Agency Approvals	UL, cUL, CB
Class II	IEC, EN60536
EMI (PFI Conducted)	EN55011, Class B
EMC Standards	EN60601-1-2
ESD Susceptibility	EN60601-1-2
Radiated Susceptibility	EN60601-1-2
EFT / Burst	EN60601-1-2
Surge	EN60601-1-2
Conducted Susceptibility	EN60601-1-2

GENERAL SPECIFICATIONS

Efficiency	83% max.
Operating Temperature	-25°C to +70°C
Case Temperature	+95°C max.
Cooling Method	Free-air convection
Derating	Derate linearly from 100% @ 50°C to 40% @ 70°C
Storage Temperature	-40°C to +100°C
Temperature Coefficient	±0.01%/°C
Relative Humidity	95% RH
MTBF	200K to 400K hours at full load, 25°C ambient, calculated per MIL-HDBK-217F
Dimensions (LxWxH)	3.5 x 2.5 x 1.06 inches (89.0 x 63.5 x 27.0 mm)
Case Material:	Plastic resin with fiberglass case, UL 94V-0 rated
Weight	280g

MECHANICAL DRAWING



PIN NO.	SINGLE	DUAL	D0512 / D0524	TRIPLE
1	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
2	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
3	+DC OUT	+DC OUT	+OUT2	+DC OUT
4	NO PIN	NO PIN	+OUT1	+5V
5	-DC OUT	COMMON	+OUT2 RTN	COMMON
6	NO PIN	NO PIN	+OUT1 RTN	+5 RTN
7	NO CONNECT	-DC OUT	NO PIN	-DC OUT

MODELS LISTS

SINGLE OUTPUT						
Product No.	TEM40-S3.3	TEM40-S5	TEM40-S9	TEM40-S12	TEM40-S15	TEM40-S24
Output Voltage (VDC)	3.3 VDC	5 VDC	9 VDC	12 VDC	15 VDC	24 VDC
Max. Output Current (mA)	8000mA	8000mA	4444mA	3333mA	2666mA	1667mA
Load Regulation (10-100%)	1%	1%	1%	1%	1%	1%
Max Capacitive Load	70000µF	33000µF	10000µF	4000µF	3000µF	1200µF

DUAL OUTPUTS						
Product No.	TEM40-D0505		TEM40-D1212		TEM40-D1515	
	Output 1	Output 2	Output 1	Output 2	Output 1	Output 2
Output Voltage (VDC)	+5 VDC	-5 VDC	+12 VDC	-12 VDC	+15 VDC	-15 VDC
Max. Output Current (mA)	1500mA	1500mA	625mA	625mA	500mA	500mA
Load Regulation (10-100%)	1% (symmetric)	1% (symmetric)	1% (symmetric)	1% (symmetric)	1% (symmetric)	1% (symmetric)
Cross Regulation	5%	5%	3%	3%	3%	3%
Max Capacitive Load	+4700µF	-4700µF	+560µF	-560µF	+500µF	-500µF

DUAL OUTPUTS				
Product No.	TEM40-D0512		TEM40-D0524	
	Output 1	Output 2	Output 1	Output 2
Output Voltage (VDC)	5 VDC	120VDC	5 VDC	24 VDC
Max. Output Current (mA)	5000mA	1250mA	5000mA	625mA
Load Regulation (10-100%)	2% (symmetric)	6% (symmetric)	2% (symmetric)	6% (symmetric)
Cross Regulation	1%	7%	1%	7%
Max Capacitive Load	15000µF	750µF	15000µF	200µF

TRIPLE OUTPUTS						
Product No.	TEM40-T0512			TEM40-T0515		
	Output 1	Output 2	Output 3	Output 1	Output 2	Output 3
Output Voltage (VDC)	5 VDC	+12 VDC	-12 VDC	5 VDC	+15 VDC	-15 VDC
Max. Output Current (mA)	5000mA	600mA	600mA	5000mA	500mA	500mA
Load Regulation (10-100%)	3%	7% (symmetric)	7% (symmetric)	3%	7% (symmetric)	7% (symmetric)
Cross Regulation	3%	7%	7%	3%	7%	7%
Max. Capacitive Load	18000µF	+150µF	-150µF	18000µF	+400µF	-400µF