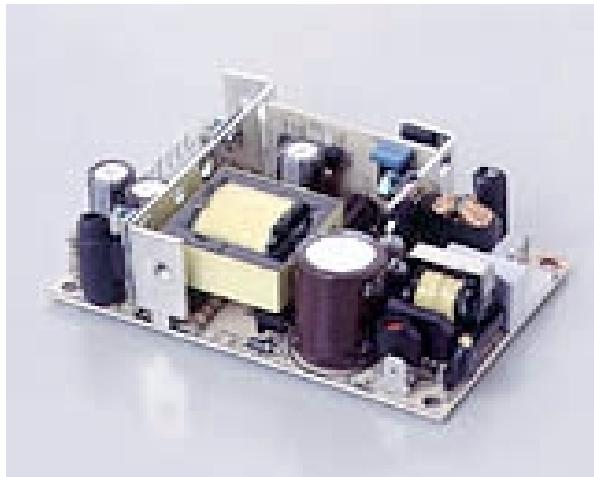


TOTAL POWER INT'L

**TPS40-1/2/3 40 WATT OPEN-FRAME SWITCHING POWER SUPPLY
KEY FEATURES**



ELECTRICAL SPECIFICATIONS

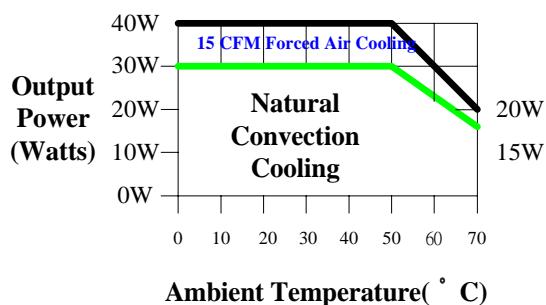
INPUT

- *Input range-----90~264 VAC, universal
- *Frequency-----47~63Hz
- *Inrush current-----25A typical, Cold start @25°C, 115VAC
- *Efficiency-----65% ~80% typical at full load
- *EMI filter-----FCC Class B conducted, CISPR 22 Class B conducted, EN55022 class B Conducted
- *Line regulation----- +/- 0.5% typical

OUTPUT

- *Maximum power----40W with 15 CFM forced air (Refer next page)
- *Hold-up time -----10ms typical at full load and 115 VAC nominal line
- *Overload protection-Short circuit protection
- *Overvoltage protection -----Main output 20% to 40% above nominal output
- *Ripple/Noise ----- +/- 1% Max. @full load (Optional +/-0.5% per inquiry)

Power Derating Curve



- *Universal input
- *Built-in EMI filter
- *Optional ±12VDC/±24VDC/±48VDC input

APPLICATIONS

- *Telecommunications
- *Computer peripherals/ Lan & Hub
- *Test & industrial equipments
- *Medical instruments
- *Business machines

EMI & EMC

- *FCC part 15, Class B
- *CISPR 22 / EN55022, Class B
- *VCCI ,Class 2
- *CE, EN 61000-3-2 (Class A) and -3; EN 61000-4-2, -3,-4,-5,-6 and -11

SAFETY APPROVAL

- *UL1950 / c UL
- *Optional CSA 22.2, LEVEL 3 (COMPLY WITH)
- *TUV EN60950
- *Optional UL 2601 (EMI Class A)(COMPLY WITH)

ENVIRONMENTAL

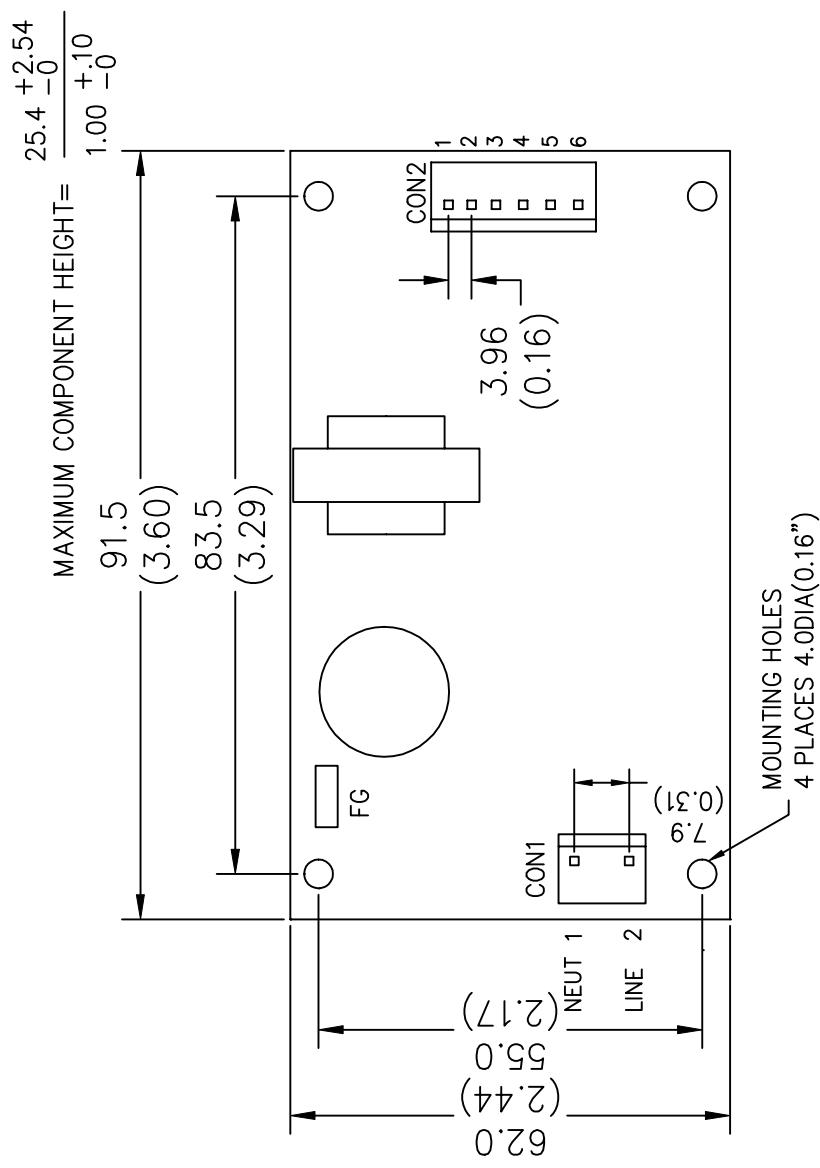
- *Operating temperature :
0 to 50°C ambient; derate each output at 2.5% per degree from 50°C to 70°C
- *Humidity:
Operating; non-condensing, 5% to 95%
- *Vibration :
10~55 Hz at 1G 3 minutes period, 30 minutes along X, Y and Z axis
- *Storage temperature:
-40 to 85°C
- *Temperature coefficient:
+/- 0.05% per degree C
- *MTBF demonstrated:
>100,000 hours at full load and 25°C ambient conditions

MODEL	OUTPUT VOLTAGE	ADJUSTMENT RANGE	MAXIMUM OUTPUT CURRENT	PEAK OUTPUT CURRENT(NOTE1)	MINIMUM OUTPUT CURRENT	TOTAL REGULATION(NOTE3)	RIPPLE & NOISE %P-P(NOTE2)	PEAK OUTPUT POWER(NOTE1)
SI NGLE OUTPUT MODEL SELECTION CHART								
TPS40-10	+5V	$\pm 10\%$ Typical	8A	10A	0A	$\pm 3\%$	$\pm 1\%$	50W Typical
TPS40-11	+12V	$\pm 10\%$ Typical	3.3A	4.1A	0A	$\pm 3\%$	$\pm 1\%$	50W Typical
TPS40-12	+15V	$\pm 10\%$ Typical	2.6A	3.2A	0A	$\pm 3\%$	$\pm 1\%$	50W Typical
TPS40-13	+24V	$\pm 10\%$ Typical	1.6A	2A	0A	$\pm 3\%$	$\pm 1\%$	50W Typical
TPS40-14	+48V	$\pm 10\%$ Typical	0.8A	1A	0A	$\pm 3\%$	$\pm 1\%$	50W Typical
TPS40-15	+3.3V	$\pm 10\%$ Typical	9.6A	12A	0.96A	$\pm 5\%$	$\pm 1.5\%$	50W Typical
TPS40-16	+28V	$\pm 10\%$ Typical	1.4A	1.8A	0A	$\pm 3\%$	$\pm 1\%$	50W Typical

DUAL OUTPUT MODEL SELECTION CHART								
TPS40-20	+5 V	$\pm 10\%$ Typical	6A	9.6A	0.6A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+12V	Fixed	1A	1.6A	0.1A	$\pm 5\%$	$\pm 1\%$	
TPS40-21	+5 V	$\pm 10\%$ Typical	6A	9.6A	0.6A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+48V	Fixed	0.25A	0.4A	0.03A	$\pm 5\%$	$\pm 1\%$	
TPS40-22	+5 V	$\pm 10\%$ Typical	6A	9.6A	0.6A	$\pm 5\%$	$\pm 1\%$	50W Typical
	-5V	Fixed	2A	3.2A	0.2A	$\pm 10\%$	$\pm 1\%$	
TPS40-23	+12V	$\pm 10\%$ Typical	1.6A	2.5A	0.16A	$\pm 5\%$	$\pm 1\%$	50W Typical
	-12V	Fixed	1.6A	2.5A	0.16A	$\pm 10\%$	$\pm 1\%$	
TPS40-24	+15V	$\pm 10\%$ Typical	1.3A	2A	0.13A	$\pm 5\%$	$\pm 1\%$	50W Typical
	-15V	Fixed	1.3A	2A	0.13A	$\pm 10\%$	$\pm 1\%$	
TPS40-25	+3.3V	$\pm 10\%$ Typical	10A	16A	1A	$\pm 5\%$	$\pm 1.5\%$	50W Typical
	+5V	Fixed	1.5A	2.4A	0.15A	$\pm 5\%$	$\pm 1\%$	

TRIPLE OUTPUT MODEL SELECTION CHART								
TPS40-30	+ 5V	$\pm 10\%$ Typical	5A	8A	0.5A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+12V	Fixed	0.75A	1.2A	0.08A	$\pm 5\%$	$\pm 1\%$	
	- 5 V	Fixed	1.2A	1.9A	0.12A	$\pm 10\%$	$\pm 1\%$	
TPS40-31	+ 5 V	$\pm 10\%$ Typical	5A	8A	0.5A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+12V	Fixed	0.75A	1.2A	0.08A	$\pm 5\%$	$\pm 1\%$	
	-12V	Fixed	0.5A	0.8A	0.05A	$\pm 10\%$	$\pm 1\%$	
TPS40-32	+ 5V	$\pm 10\%$ Typical	5A	8A	0.5A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+15V	Fixed	0.5A	0.8A	0.05A	$\pm 5\%$	$\pm 1\%$	
	-15V	Fixed	0.5A	0.8A	0.05A	$\pm 10\%$	$\pm 1\%$	
TPS40-33	+5V	$\pm 10\%$ Typical	4A	6.4A	0.4A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+15V	Fixed	1A	1.6A	0.1A	$\pm 5\%$	$\pm 1\%$	
	-5V	Fixed	1A	1.6A	0.1A	$\pm 10\%$	$\pm 1\%$	
TPS40-34	+5V	$\pm 10\%$ Typical	4A	6.4A	0.4A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+15V	Fixed	0.8A	1.2A	0.08A	$\pm 5\%$	$\pm 1\%$	
	-12V	Fixed	0.7A	1.1A	0.07A	$\pm 10\%$	$\pm 1\%$	
TPS40-35	+ 5V	$\pm 10\%$ Typical	4A	6.4A	0.4A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+24V	Fixed	0.5A	0.8A	0.05A	$\pm 5\%$	$\pm 1\%$	
	-12V	Fixed	0.7A	1.1A	0.07A	$\pm 10\%$	$\pm 1\%$	
TPS40-36	+ 5 V	$\pm 10\%$ Typical	4A	6.4A	0.4A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+12V	Fixed	0.75A	1.2A	0.08A	$\pm 5\%$	$\pm 1\%$	
	-12V	Fixed	1A	1.6A	0.1A	$\pm 10\%$	$\pm 1\%$	
TPS40-37	+5V	$\pm 10\%$ Typical	4A	6.4A	0.4A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+12V	Fixed	0.75A	1.2A	0.08A	$\pm 5\%$	$\pm 1\%$	
	+24V	Fixed	0.5A	0.8A	0.05A	$\pm 10\%$	$\pm 1\%$	
TPS40-38	+5V	$\pm 10\%$ Typical	2.4A	3.8A	0.24A	$\pm 5\%$	$\pm 1\%$	50W Typical
	+12V	Fixed	1.2A	1.9A	0.12A	$\pm 5\%$	$\pm 1\%$	
	+48V	Fixed	0.3A	0.5A	0.03A	$\pm 10\%$	$\pm 1\%$	

- NOTES:**
- 1) Peak loads for lasting <30 seconds with a maximum 10% duty cycle are acceptable. Please contact us if need special peak load.
 - 2) Maximum peak to peak noise expressed as a percentage of output voltage, 20MHz bandwidth, input not less nominal line, 0.1 μ F and 47 μ F Cap. on outputs.
 - 3) Loading test conditions are set for all outputs at minimum, middle and maximum of loads. Special cross loading requirement is welcomed.
 - 4) Detailed engineering specification of each model is available for inquiry.
 - 5) Special output voltage/current inquiry is welcomed.
 - 6) Specifications subject to change without notice.
 - 7) 25% derated if 24 VDC input version; 50% derated if 12 VDC input version; 25% derated if additional cover.



TOLERANCE : $\frac{\text{mm} \pm 0.5}{(\text{inch}) \pm 0.02}$

UNIT: $\frac{\text{mm}}{(\text{inch})}$

CON1 (CONNECTORS) CONFIGURATION

	1	2
AC INPUT	NEUT	LINE

CON2 (CONNECTORS) CONFIGURATION

Multiple Output	1	2	3	4	5	6
V2(NC)	RET	V1	V3(NC)			

CON1(CONNECTORS) CONFIGURATION

DC INPUT	1	2	+
-			