



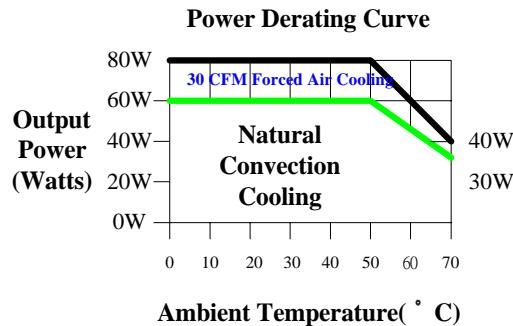
ELECTRICAL SPECIFICATIONS

INPUT

- *Input range-----90~264 VAC, universal
- *Frequency-----47~63Hz
- *Inrush current-----35A 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----80W with 30 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)



KEY FEATURES

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

APPLICATIONS

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

EMI & EMC

- *FCC part 15, Class B
- *CISPR 22 / EN55022, Class B
- *VCCI ,Class 2
- *CE, EN61000-3-2 (Class A) and -3 ; EN61000-4-2, -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

TPS80 SWITCHING MODE 80W U CHANNEL POWER SUPPLIES

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)
SINGLE OUTPUT MODEL SELECTION CHART								
TPS80-10	+5V	±10% Typical	16A	20A	0A	±3%	±1%	100W Typical
TPS80-11	+12V	±10% Typical	6.6A	8.3A	0A	±3%	±1%	100W Typical
TPS80-12	+15V	±10% Typical	5.3A	6.6A	0A	±3%	±1%	100W Typical
TPS80-13	+24V	±10% Typical	3.3A	4.1A	0A	±3%	±1%	100W Typical
TPS80-14	+48V	±10% Typical	1.7A	2.1A	0A	±3%	±1%	100W Typical
TPS80-15	+36V	±10% Typical	2.2A	2.8A	0A	±3%	±1%	100W Typical
TPS80-17	+3.3V	±10% Typical	24A	26.3A	2.4A	±5%	±1.5%	100W Typical
DUAL OUTPUT MODEL SELECTION CHART								
TPS80-20	+5 V	±10% Typical	8A	10A	0.8A	±5%	±1%	100W Typical
	+12V	Fixed	4A	5A	0.4A	±5%	±1%	
TPS80-21	+5 V	±10% Typical	8A	10A	0.8A	±5%	±1%	100W Typical
	+24V	Fixed	1.7A	2.1A	0.17A	±5%	±1%	
TPS80-22	+5 V	±10% Typical	8A	10A	0.8A	±5%	±1%	100W Typical
	-5 V	Fixed	8A	10A	0.8A	±10%	±1%	
TPS80-23	+12V	±10% Typical	3.3A	4.1A	0.33A	±5%	±1%	100W Typical
	-12 V	Fixed	3.3A	4.1A	0.33A	±10%	±1%	
TPS80-24	+15 V	±10% Typical	2.7A	3.4A	0.27A	±5%	±1%	100W Typical
	-15 V	Fixed	2.7A	3.4A	0.27A	±10%	±1%	
TPS80-25	+3.3V	±10% Typical	10A	12.5A	1A	±5%	±1.5%	100W Typical
	+12 V	Fixed	4A	5A	0.4A	±5%	±1%	
TPS80-26	+12V	±10% Typical	4A	5A	0.4A	±5%	±1%	100W Typical
	+24V	Fixed	1.3A	1.6A	0.13A	±10%	±1%	
TPS80-27Y	+5V	±10% Typical	8A	10.4A	0.8A	±5%	±1%	100W Typical
	+15V	Fixed	3.2A	4A	0.32A	±10%	±1%	
TPS80-28	+12.5V	±10% Typical	4.5A	5.6A	0.45A	±5%	±1%	100W Typical
	+16V	Fixed	1.5A	1.8A	0.15A	±10%	±1%	
TPS80-29	+3.3V	±10% Typical	16A	20A	1.6A	±5%	±1.5%	100W Typical
	+5V	Fixed	6A	7.5A	0.6A	±5%	±1%	
TRIPLE OUTPUT MODEL SELECTION CHART								
TPS80-30	+5 V	±10% Typical	8A	10A	0.8A	±5%	±1%	100W Typical
	+12V	Fixed	5A	6.3A	0.5A	±5%	±1%	
	-5 V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS80-31	+5 V	±10% Typical	8A	10A	0.8A	±5%	±1%	100W Typical
	+12V	Fixed	2.9A	3.6A	0.29A	±5%	±1%	
	-12V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
TPS80-32	+5 V	±10% Typical	8A	10A	0.8A	±5%	±1%	100W Typical
	+15V	Fixed	2.2A	2.8A	0.22A	±5%	±1%	
	-15V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
TPS80-33	+5 V	±10% Typical	10A	12.5A	1A	±5%	±1%	100W Typical
	+15V	Fixed	1.6A	2A	0.16A	±5%	±1%	
	-5 V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS80-34	+5 V	±10% Typical	10A	12.5A	1A	±5%	±1%	100W Typical
	+15V	Fixed	1.6A	2A	0.16A	±5%	±1%	
	-12V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
TPS80-35	+5 V	±10% Typical	7A	8.8A	0.7A	±5%	±1%	100W Typical
	+24V	Fixed	1.6A	2A	0.16A	±5%	±1%	
	-12V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
TPS80-36	+5 V	±10% Typical	7A	8.8A	0.7A	±5%	±1%	100W Typical
	+12V	Fixed	3.2A	4A	0.32A	±5%	±1%	
	-12V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
TPS80-37	+5 V	±10% Typical	7A	8.8A	0.7A	±5%	±1%	100W Typical
	+12V	Fixed	2.8A	3.5A	0.28A	±5%	±1%	
	+24V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	

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E-mail: sales@total-power.com http://www.total-power.com

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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)
TRIPLE OUTPUT MODEL SELECTION CHART								
TPS80-38	+15V	±10% Typical	2A	2.5A	0.2A	±5%	±1%	
	-15V	Fixed	2A	2.5A	0.2A	±10%	±1%	100W Typical
	+5V	Fixed	4A	5A	0.4A	±10%	±1%	
TPS80-39	+12V	±10% Typical	1.5A	1.8A	0.15A	±5%	±1%	
	-12V	Fixed	1.5A	1.8A	0.15A	±5%	±1%	100W Typical
	+28V	Fixed	1.6A	2A	0.16A	±10%	±1%	
QUAD OUTPUT MODEL SELECTION CHART								
TPS80-40	+ 5V	±10% Typical	8A	10A	0.8A	±5%	±1%	
	+12V	Fixed	2.6A	3.3A	0.26A	±5%	±1%	100W Typical
	-12V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
	-5 V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
TPS80-41	+ 5V	±10% Typical	8A	10A	0.8A	±5%	±1%	
	+12V	Fixed	2.2A	2.8A	0.22A	±5%	±1%	100W Typical
	- 5 V	Fixed	0.8A	1A	0.08A	±10%	±1%	
	-12V	Fixed	0.8A	1A	0.08A	±10%	±1%	
TPS80-42	+ 5V	±10% Typical	8A	10A	0.8A	±5%	±1%	
	+12V	Fixed	1.3A	1.6A	0.13A	±5%	±1%	100W Typical
	-15V	Fixed	0.8A	1A	0.08A	±10%	±1%	
	+15V	Fixed	0.8A	1A	0.08A	±10%	±1%	
TPS80-43	+ 5V	±10% Typical	4.5A	5.6A	0.45A	±5%	±1%	
	+12V	Fixed	2A	2.5A	0.2A	±5%	±1%	100W Typical
	-12V	Fixed	0.8A	1A	0.08A	±10%	±1%	
	+15V	Fixed	1.6A	2A	0.16A	±10%	±1%	
TPS80-44	+ 5V	±10% Typical	4.5A	5.6A	0.45A	±5%	±1%	
	+12V	Fixed	0.8A	1A	0.08A	±5%	±1%	100W Typical
	-12V	Fixed	0.8A	1A	0.08A	±10%	±1%	
	+48V	Fixed	0.8A	1A	0.08A	±10%	±1%	
TPS80-45Y	+ 5V	±10% Typical	8A	10.4A	0.8A	±5%	±1%	
	+12V	Fixed	0.8A	1.04A	0.08A	±5%	±1%	100W Typical
	-12V	Fixed	0.8A	1.04A	0.08A	±10%	±1%	
	+24V	Fixed	0.8A	1.04A	0.08A	±10%	±1%	
TPS80-46Y	+ 5V	±10% Typical	8A	10.4A	0.8A	±5%	±1%	
	+15V	Fixed	0.8A	1.04A	0.08A	±5%	±1%	100W Typical
	-15V	Fixed	0.8A	1.04A	0.08A	±10%	±1%	
	+48V	Fixed	0.8A	1.04A	0.08A	±10%	±1%	
TPS80-47Y	+ 5V	±10% Typical	4A	5.2A	0.4A	±5%	±1%	
	+12V	Fixed	1.4A	1.8A	0.14A	±5%	±1%	100W Typical
	-12V	Fixed	1.4A	1.8A	0.14A	±10%	±1%	
	+36V	Fixed	0.8A	1.04A	0.08A	±10%	±1%	
TPS80-48Y	+ 5V	±10% Typical	8A	10.4A	0.8A	±5%	±1%	
	+15V	Fixed	0.8A	1.04A	0.08A	±5%	±1%	100W Typical
	-15V	Fixed	0.8A	1.04A	0.08A	±10%	±1%	
	+24V	Fixed	0.8A	1.04A	0.08A	±10%	±1%	
TPS80-49Y	+3.3V	±10% Typical	7A	15A	0.7A	±5%	±1.5%	
	+5V	Fixed	5A	6.2A	0.5A	±5%	±1%	
	+12V	Fixed	2.5A	6.2A	0.25A	±10%	±1%	100W Typical
	-5V	Fixed	1A	3.7A	0.1A	±10%	±1%	

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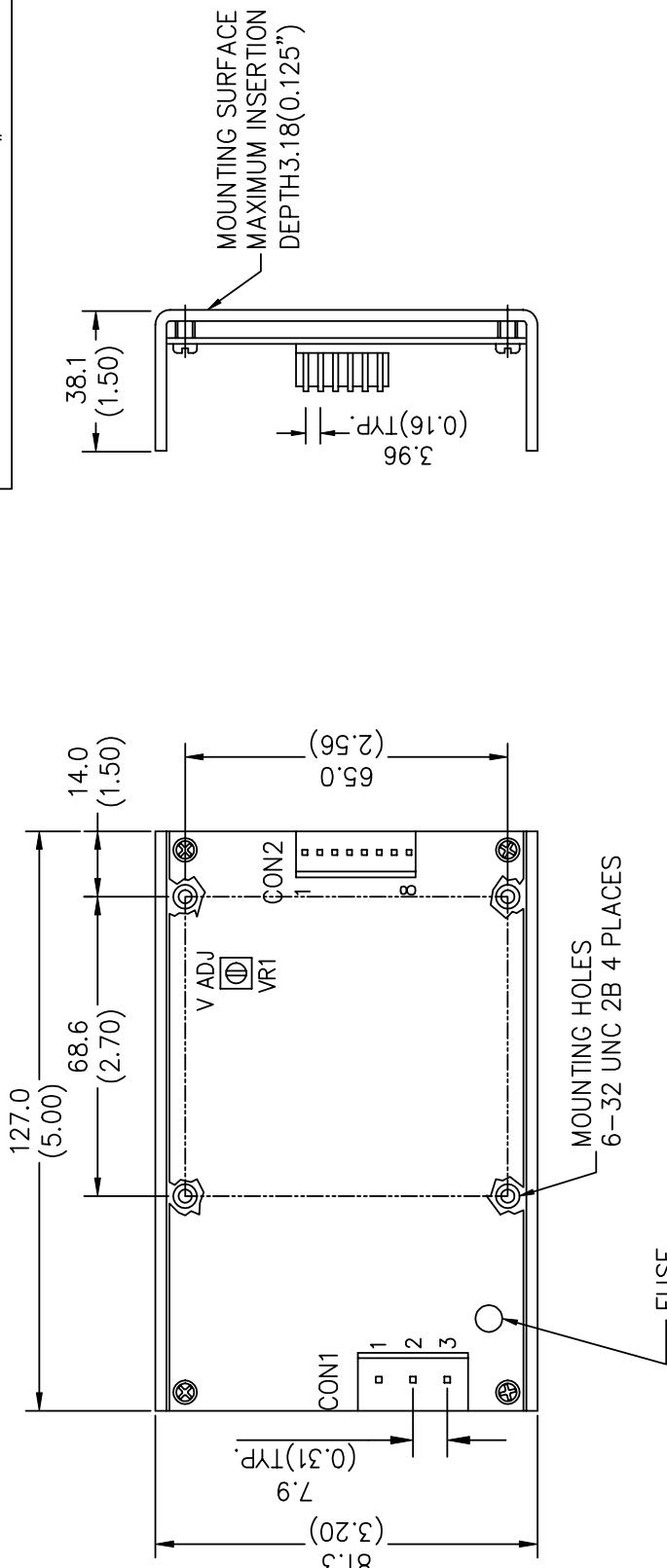
- NOTES:**
- 1) Peak loads for lasting <30 seconds with a maximum 10% duty cycle are acceptable. Please contact us if need special peak load.
 - 2) Maximum peak to peak noise expressed as a percentage of output voltage, 20MHz bandwidth, input not less nominal line, 0.1 μ F and 47 μ F Cap. on outputs.
 - 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.

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CON1=CONNECTOR,MOLEX#09-65-2058(OR EQUIVALENT)
(MATING CONECT.=MOLEX#09-50-3051)

CON2=CONNECTOR,MOLEX#09-65-2088(OR EQUIVALENT)
(MATING CONECT.=MOLEX#09-50-3081)

ALL MATING TERMINAL=MOLEX#08-50-0106(OR EQUIVALENT)



CON1 (CONNECTORS) CONFIGURATION

	1	2	3
FG	NEUT(-)	LINE(+)	

CON2 (CONNECTORS) CONFIGURATION
FOR V4 ISOLATED

Multiple	1	2-3	4-5	6	7	8
Output	V2	V1	RET	V3	V4	V4RET

CON2 (CONNECTORS) CONFIGURATION
FOR V4 POSITIVE

Multiple	1	2-3	4-5	6	7	8
Output	V2	V1	RET	V3	V4(+)	RET

CON2 (CONNECTORS) CONFIGURATION
FOR V4 NEGATIVE

Multiple	1	2-3	4-5	6	7	8
Output	V2	V1	RET	V3	RET	V4(-)

CON2 (CONNECTORS) CONFIGURATION

Single	1-3	4-6	7-8
Output	V1(+)	RET(-)	NC

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

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