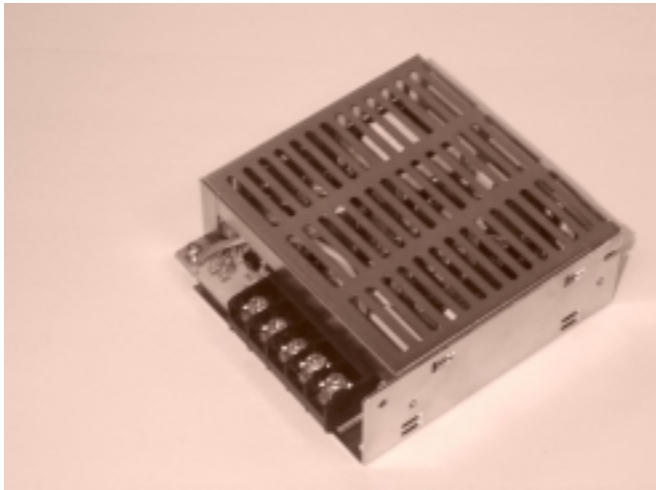


# TOTAL POWER INT.

## TPS25LB SWITCHING MODE 25W LOW COST BOX TYPE POWER SUPPLY



### KEY FEATURES

- \*Universal input
- \*Built-in EMI filter
- \*LOW COST
- \*Optional constant current change (for single output)

### APPLICATIONS

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

### ELECTRICAL SPECIFICATIONS

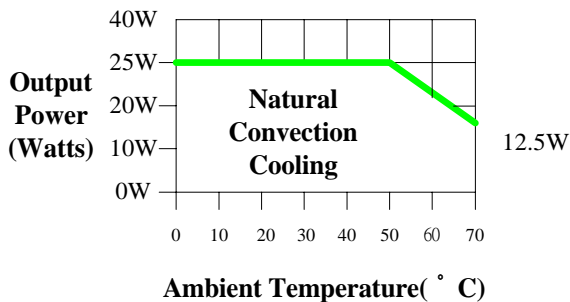
#### INPUT

- \*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----25W convection (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**



### EMI & EMC (IN PROCESS)

- \*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(IN PROCESS)

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

### 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

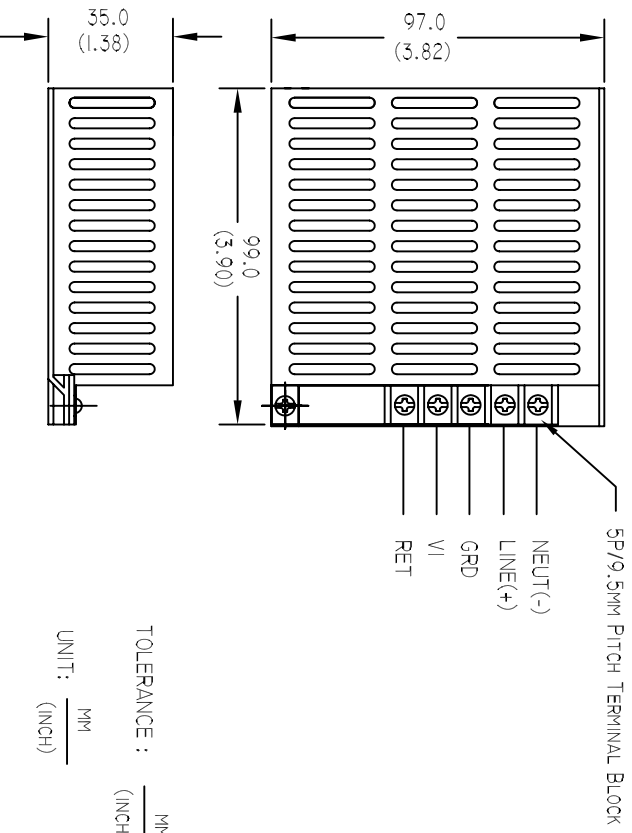
MODEL	OUTPUT VOLTAGE	ADJUSTMENT RANGE	MAXIMUM OUTPUT CURRENT	PEAK OUTPUT CURRENT(NOTE1)	MINIMUM OUTPUT CURRENT	TOTAL REGULATION(NOTE3)	RIPPLE & NOISE %P-P(NOTE2)	PEAK OUTPUT POWER(NOTE1)
<b>SINGLE OUTPUT MODEL SELECTION CHART</b>								
TPS25LB-10	+5V	±10% Typical	5A	6.5A	0A	±3%	±1%	33W Typical
TPS25LB-11	+12V	±10% Typical	2.08A	2.7A	0A	±3%	±1%	33W Typical
TPS25LB-12	+15V	±10% Typical	1.66A	2.1A	0A	±3%	±1%	33W Typical
TPS25LB-13	+24V	±10% Typical	1.04A	1.3A	0A	±3%	±1%	33W Typical
TPS25LB-14	+48V	±10% Typical	0.52A	0.6A	0A	±3%	±1%	33W Typical
TPS25LB-15	+3.3V	±10% Typical	5A	6.5A	0A	±5%	±1.5%	22W Typical
<b>DUAL OUTPUT MODEL SELECTION CHART</b>								
TPS25LB-20	+5 V	±10% Typical	3.75A	4.8A	0.38A	±5%	±1%	33W Typical
	+12V	Fixed	0.58A	0.7A	0.06A	±5%	±1%	
TPS25LB-21	+5 V	±10% Typical	3.75A	4.8A	0.38A	±5%	±1%	33W Typical
	+24V	Fixed	0.34A	0.2A	0.03A	±5%	±1%	
TPS25LB-22	+5 V	±10% Typical	3.75A	4.8A	0.38A	±5%	±1%	33W Typical
	-5V	Fixed	1.25A	1.6A	0.13A	±10%	±1%	
TPS25LB-23	+12V	±10% Typical	1.08A	1.4A	0.11A	±5%	±1%	33W Typical
	-12V	Fixed	1.08A	1.4A	0.11A	±10%	±1%	
TPS25LB-24	+15V	±10% Typical	0.83A	1.0A	0.08A	±5%	±1%	33W Typical
	-15V	Fixed	0.83A	1.0A	0.08A	±10%	±1%	
TPS25LB-25	+3.3V	±10% Typical	5A	6.5A	0.5A	±5%	±1.5%	33W Typical
	+5V	Fixed	2A	2.6A	0.2A	±5%	±1%	
TPS25LB-26	+5V	±10% Typical	1A	1.0A	0.1A	±5%	±1%	33W Typical
	+48V	Fixed	0.5A	1.0A	0.05A	±10%	±1%	
<b>TRIPLE OUTPUT MODEL SELECTION CHART</b>								
TPS25LB-30	+5V	±10% Typical	3.33A	4.3A	0.33A	±5%	±1%	33W Typical
	+12V	Fixed	0.42A	0.5A	0.04A	±5%	±1%	
	-5V	Fixed	0.83A	1.0A	0.08A	±10%	±1%	
TPS25LB-31	+5V	±10% Typical	3.33A	4.3A	0.33A	±5%	±1%	33W Typical
	+12V	Fixed	0.42A	0.5A	0.04A	±5%	±1%	
	-12V	Fixed	0.33A	0.4A	0.03A	±10%	±1%	
TPS25LB-32	+5V	±10% Typical	3.33A	4.3A	0.33A	±5%	±1%	33W Typical
	+15V	Fixed	0.33A	0.4A	0.03A	±5%	±1%	
	-15V	Fixed	0.33A	0.4A	0.03A	±10%	±1%	
TPS25LB-33	+5V	±10% Typical	2.5A	3.2A	0.25A	±5%	±1%	33W Typical
	-5V	Fixed	0.83A	1.0A	0.08A	±5%	±1%	
	+15V	Fixed	0.58A	0.7A	0.06A	±10%	±1%	
TPS25LB-34	+5V	±10% Typical	2.5A	3.2A	0.25A	±5%	±1%	33W Typical
	-12V	Fixed	0.4A	0.5A	0.04A	±5%	±1%	
	+15V	Fixed	0.5A	0.6A	0.05A	±10%	±1%	
TPS25LB-35	+5V	±10% Typical	2.5A	3.2A	0.25A	±5%	±1%	33W Typical
	-12V	Fixed	0.42A	0.5A	0.04A	±5%	±1%	
	+24V	Fixed	0.33A	0.4A	0.03A	±10%	±1%	
TPS25LB-36	+5V	±10% Typical	1A	3.2A	0.1A	±5%	±1%	33W Typical
	+12V	Fixed	1.5A	2.0A	0.15A	±5%	±1%	
	-12V	Fixed	0.4A	0.5A	0.04A	±10%	±1%	
TPS25LB-37	+5V	±10% Typical	2.5A	3.2A	0.25A	±5%	±1%	33W Typical
	+12V	Fixed	0.42A	0.5A	0.04A	±5%	±1%	
	+24V	Fixed	0.33A	0.4A	0.03A	±10%	±1%	
TPS25LB-38	+5V	±10% Typical	1.67A	2.1A	0.17A	±5%	±1%	33W Typical
	+12V	Fixed	0.83A	1.1A	0.08A	±5%	±1%	
	+48V	Fixed	0.17A	0.2A	0.02A	±10%	±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, 0.1 μF and 47 μF 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.

# TOTAL POWER INTERNATIONAL

TOLL FREE# 877-646-0900

# TPS25LB



TOLERANCE :  $\frac{\text{MM}\pm 0.5}{(\text{INCH})\pm 0.02}$

UNIT :  $\frac{\text{MM}}{(\text{INCH})}$

