

TOTAL POWER INT.
TPS150LBP SWITCHING MODE 150W LOW COST BOX TYPE POWER SUPPLY
WITH POWER FACTOR CORRECTION



KEY FEATURES

- *Built-in EMI filter
- *Optional remote sense on main output
- *Low Cost
- *Active PFC
- *Optional constant current change (for single output)

APPLICATIONS

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

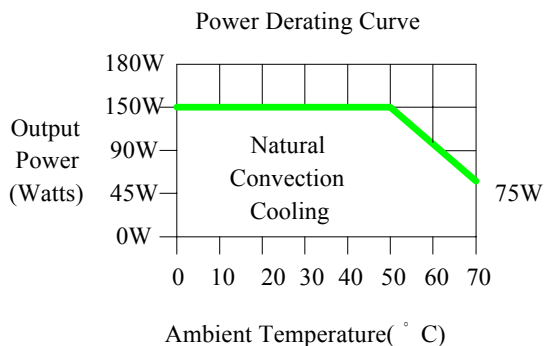
ELECTRICAL SPECIFICATIONS

INPUT

- Input range-----90~264VAC
- *Frequency-----47~63Hz
- *Inrush current-----38A typical, Cold start @25°C, 115VAC
- *Efficiency-----65%~85% 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----150W convection (With 17 CFM airflow)
- *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)



EMI & EMC (IN PROCESS)

- *FCC part 15, Class B
- *CISPR 22 / EN55022, Class B
- *VCCI, Class 2
- *CE, EN61000-3-2 (Class D) 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)
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SINGLE OUTPUT MODEL SELECTION CHART

TPS150LBP-10	+5V	±10% Typical	30A	39A	0A	±3%	±1%	195W Typical
TPS150LBP-11	+12V	±10% Typical	12.5A	16.2A	0A	±3%	±1%	195W Typical
TPS150LBP-12	+15V	±10% Typical	10A	13A	0A	±3%	±1%	195W Typical
TPS150LBP-13	+24V	±10% Typical	6.26A	8.1A	0A	±3%	±1%	195W Typical
TPS150LBP-14	+48V	±10% Typical	3.12A	4.06A	0A	±3%	±1%	195W Typical
TPS150LBP-15	+3.3V	±10% Typical	30A	39A	0A	±5%	±1.5%	195W Typical

DUA OUTPUT MODEL SELECTION CHART

TPS150LBP-20	+5 V	±10% Typical	17A	21.6A	1.7A	±5%	±1%	195W Typical
	+12V	Fixed	7A	9A	0.7A	±5%	±1%	
TPS150LBP-21	+5 V	±10% Typical	17A	21.6A	1.7A	±5%	±1%	195W Typical
	+24V	Fixed	3.7A	4.7A	0.37A	±5%	±1%	
TPS150LBP-22	+5 V	±10% Typical	17A	21.6A	0.17A	±5%	±1%	195W Typical
	- 5 V	Fixed	17A	21.6A	0.17A	±5%	±1%	
TPS150LBP-23	+12V	±10% Typical	7A	9A	0.7A	±5%	±1%	195W Typical
	- 12 V	Fixed	7A	9A	0.7A	±5%	±1%	
TPS150LBP-24	+15 V	±10% Typical	5A	6.5A	0.5A	±5%	±1%	195W Typical
	- 15 V	Fixed	5A	6.5A	0.5A	±5%	±1%	
TPS150LBP-25	+3.3V	±10% Typical	17A	22A	1.7A	±5%	±1.5%	195W Typical
	+12 V	Fixed	8A	10A	0.8A	±5%	±1%	
TPS150LBP-26	+ 5 V	±10% Typical	17A	22A	1.7A	±5%	±1%	195W Typical
	+48V	Fixed	1.8A	2.4A	0.18A	±5%	±1%	

TRIPLE OUTPUT MODEL SELECTION CHART

TPS150LBP-30	+ 5V	±10% Typical	17A	22A	1.7A	±5%	±1%	195W Typical
	+12V	Fixed	7A	9.1A	0.7A	±5%	±1%	
	- 5 V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS150LBP-31	+ 5V	±10% Typical	17A	22A	1.7A	±5%	±1%	195W Typical
	+12V	Fixed	7A	9.1A	0.7A	±5%	±1%	
	-12V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS150LBP-32	+ 5V	±10% Typical	17A	22A	1.7A	±5%	±1%	195W Typical
	+15V	Fixed	5A	6.5A	0.5A	±5%	±1%	
	-15V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS150LBP-33	+ 5V	±10% Typical	24A	31.2A	2.4A	±5%	±1%	195W Typical
	+15V	Fixed	3A	3.9A	0.3A	±5%	±1%	
	- 5 V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS150LBP-34	+ 5V	±10% Typical	22A	28A	2.2A	±5%	±1%	195W Typical
	+15V	Fixed	3A	3.9A	0.3A	±5%	±1%	
	-12V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS150LBP-35	+ 5 V	±10% Typical	15A	20A	1.5A	±5%	±1%	195W Typical
	+24V	Fixed	3A	3.9A	0.3A	±5%	±1%	
	-12V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS150LBP-36	+ 5V	±10% Typical	10A	13A	1A	±5%	±1%	195W Typical
	+12V	Fixed	8A	10.4A	0.8A	±5%	±1%	
	- 12V	Fixed	1A	1.3A	0.1A	±10%	±1%	
PS150LBP-37	+ 5V	±10% Typical	15A	20A	1.5A	±5%	±1%	195W Typical
	+12V	Fixed	6A	7.8A	0.6A	±5%	±1%	
	+24V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS150LBP-38	+ 5V	±10% Typical	10A	1.3A	1.0A	±5%	±1%	195W Typical
	+12V	Fixed	4A	5.2A	0.4A	±5%	±1%	
	+48V	Fixed	1.2A	1.6A	0.12A	±10%	±1%	

QUAD OUTPUT MODEL SELECTION CHART

TPS150LBP-40	+ 5V	±10% Typical	17A	22A	1.7A	±5%	±1%	195W Typical
	+12V	Fixed	6A	7.8A	0.6A	±5%	±1%	
	- 12V	Fixed	1A	1.3A	0.1A	±10%	±1%	
	- 5 V	Fixed	1A	1.3A	0.1A	±10%	±1%	

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)
QUAD OUTPUT MODEL SELECTION CHART								
TPS150LBP-41	+ 5V	±10% Typical	17A	21.6A	1.7A	±5%	±1%	195W Typical
	+12V	Fixed	5A	6.5A	0.5A	±5%	±1%	
	- 12V	Fixed	2A	2.6A	0.2A	±10%	±1%	
	- 5 V	Fixed	2A	2.6A	0.2A	±10%	±1%	
TPS150LBP-42	+ 5V	±10% Typical	17A	22A	1.7A	±5%	±1%	195W Typical
	+12V	Fixed	3.5A	4.5A	0.35A	±5%	±1%	
	- 15V	Fixed	2A	2.6A	0.2A	±10%	±1%	
	+15V	Fixed	2A	2.6A	0.2A	±10%	±1%	
TPS150LBP-43	+ 5V	±10% Typical	10A	13A	1A	±5%	±1%	195W Typical
	+12V	Fixed	4A	5.2A	0.4A	±5%	±1%	
	-15V	Fixed	2A	2.6A	0.2A	±10%	±1%	
	- 12V	Fixed	2A	2.6A	0.2A	±10%	±1%	
TPS150LBP-44	+ 5V	±10% Typical	10A	13A	1A	±5%	±1%	195W Typical
	+12V	Fixed	2A	2.6A	0.2A	±5%	±1%	
	- 12V	Fixed	2A	2.6A	0.2A	±10%	±1%	
	+48V	Fixed	1.5A	2A	0.15A	±10%	±1%	
TPS150LBP-45	+ 5V	±10% Typical	10A	13A	1A	±5%	±1%	195W Typical
	+12V	Fixed	3A	3.9A	0.3A	±5%	±1%	
	- 12V	Fixed	2A	2.6A	0.2A	±10%	±1%	
	+24V	Fixed	2A	2.6A	0.2A	±10%	±1%	
TPS150LBP-46	+3.3V	±10% Typical	20A	26A	2A	±5%	±1%	195W Typical
	+ 5V	Fixed	10A	13A	1A	±5%	±1%	
	+12V	Fixed	2A	2.6A	0.2A	±10%	±1%	
	- 12V	Fixed	1A	1.3A	0.1A	±10%	±1%	
TPS150LBP-47	+ 3.3V	±10% Typical	10A	13A	1A	±5%	±1.5%	195W Typical
	+5V	Fixed	10A	13A	1A	±5%	±1%	
	+12V	Fixed	4A	5.2A	0.4A	±10%	±1%	
	-12V	Fixed	1A	1.3A	0.1A	±10%	±1%	

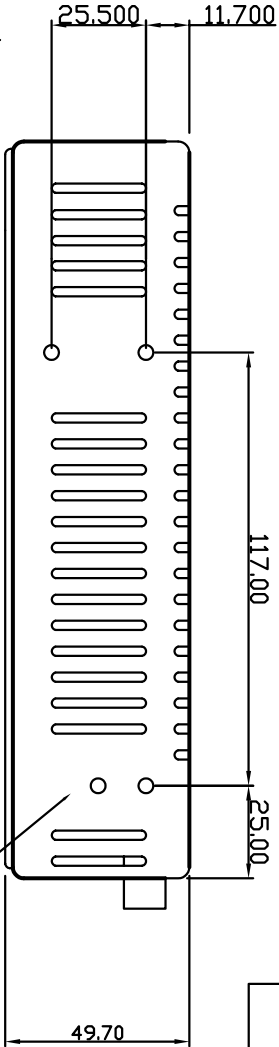
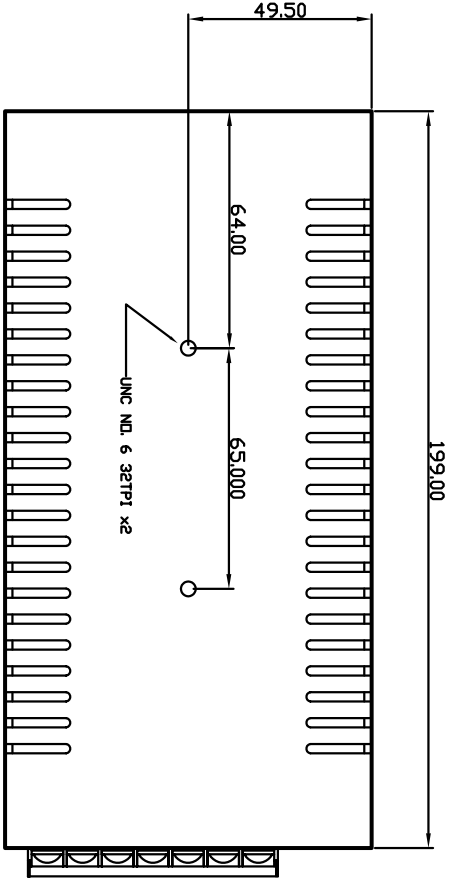
NOTES: 1) Peak loads for lasting <30 seconds with a maximum 10% duty cycle are acceptable. Please contact us if need special peak load.
2) Maximum peak to peak noise expressed as a percentage of output voltage, 20MHz bandwidth, 0.1 μ F and 47 μ F Cap. on outputs.
3) Loading test conditions are set for 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.

TOTAL POWER INTERNATIONAL
TOLL FREE # 877-646-0900

MECHANICAL DIMENSIONS: MM

TPS150LBP

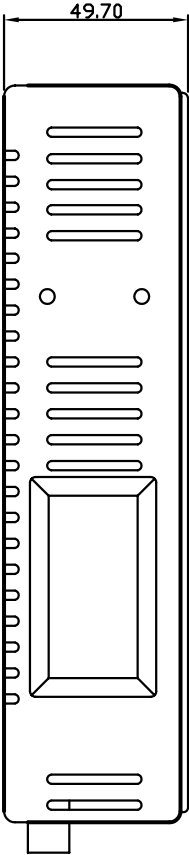
BOTTOM VIEW



Terminal Block 7 Poles/9.5mm Pitch
Terminal Block 9 Poles/8.25mm Pitch

(Single Output)
LINE (+)
NEUT (-)
FG
RET
RET
V+
V+

(Multiple Output)
LINE (+)
NEUT (-)
FG
V3
V4
V2
RET
RET
V1



(Multiple Output)
LINE (+)
NEUT (-)
FG
V3
V4
V2
RET
RET
V1