

Embedded Power for Business-Critical Continuity

# LPT25 Series

## 25 Watts

**Total Power:** 25 - 40 Watts  
**Input Voltage:** 85 - 264 VAC  
 120 - 300VDC  
**# of Outputs:** Triple



Rev. 02.05.07  
LPT25 Series  
1 of 3

## Electrical Specifications

### Special Features

- Universal input
- 3" x 5" footprint
- Less than 1U high
- Remote sense on main output
- Terminal block option (-T)
- Built-in EMI filter
- Low output ripple
- Adjustable main output
- Overvoltage protection
- Overload protection
- 110 KHz switching frequency
- LPX40 enclosure kit available
- 2 year warranty

### Input

Input range	85-264 VAC 120-300 VDC
Frequency	47-440 Hz
Inrush current	<15A peak @ 115VAC; <30A peak @ 230VAC, cold start @ 25°C
Input current	1 A max. (RMS) @ 115 VAC
Efficiency	70% typical at full load
EMI	FCC Class B conducted; CISPR 22 Class B conducted EN55022 Class B conducted; VDE 0878 PT3 Class B conducted
Safety ground leakage current	<0.5 mA @ 50/60 Hz, 264 VAC input

### Output

Maximum Power	25W for convection; 40W with 30CFW forced air
Cross regulation	±2% on output 1; ±5% on outputs 2, 3
Adjustment range	-5, +10% minimum
Hold-up time	20 ms @ 25 W load, 115 VAC nominal line
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110% to 145% above peak rating
Overvoltage protection	5.7 to 6.7 VDC on the main output
Remote sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.

### Safety

<b>VDE</b>	0805 EN60950 11774-3336-1241 (LC#84936)
<b>UL</b>	UL60950 E132002
<b>CSA</b>	CSA 22.2-234 Level 3 LR53982C
<b>NEMKO</b>	EN 60950/EMKO-TUE P95100411 (74-sec) 203

Certificate and report  
 1569, 1570, 1571, 1572  
 Mark (LVD)  
 pdf.dzsc.com



## Environmental Specifications

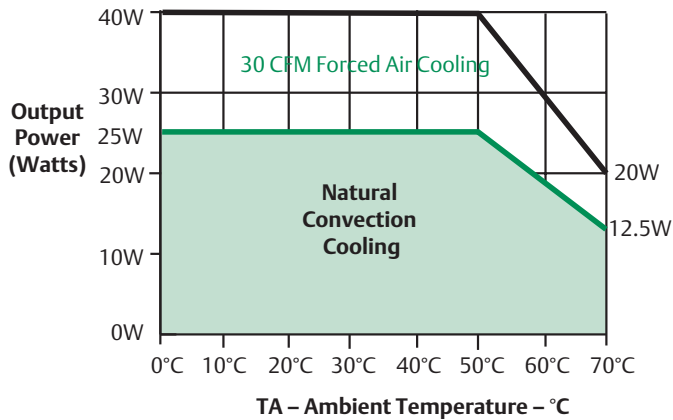
Operating temperature:	0° to 50°C ambient derate each output at 2.5% per degree from 50° to 70°C, -20°C start up.
Electromagnetic susceptibility:	Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3
Humidity:	Operating; non-condensing 5% to 95%
Vibration:	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75G peak 5 Hz to 500 Hz, operational
Storage temperature:	-40° to 85°C
Temperature coefficient:	±.04% per °C
MTBF demonstrated:	>550,000 hours at full load and 25°C ambient conditions

## Ordering Information

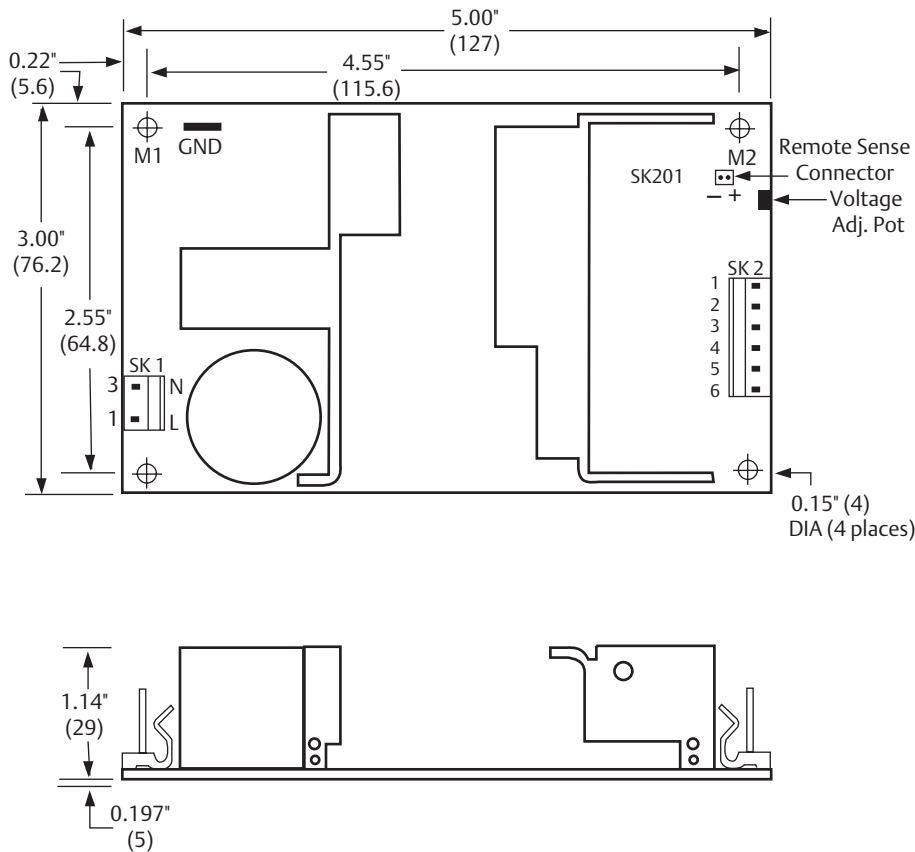
Model Number	Output Voltage	Minimum Load	Maximum Load with Convction cooling	Maximum Load with 30CFM Forced Air	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
LPT22(-T)	5V	0.3A	3A	4A	5A	±2%	50mV
	12V	0.1A	1.5A	2A	3A	±5%	120mV
	-12V	0A	0.5A	0.7A	1A	±5%	120mV
LPT23(-T)	5V	0.4A	4A	5A	6A	±2%	50mV
	12V	0A	0.5A	0.7A	1A	±5%	120mV
	-12V	0A	0.5A	0.7A	1A	±5%	120mV
LPT24(-T)	5V	0.3A	3A	4A	5A	±2%	50mV
	12V	0.1A	1.5A	2A	3A	±5%	120mV
	-5V	0A	0.5A	0.7A	1A	±5%	50mV
LPT25(-T)	5V	0.3A	3A	4A	5A	±2%	50mV
	15V	0.1A	1.5A	2A	2A	±5%	150mV
	-15V	0A	0.5A	0.7A	1A	±5%	150mV

1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
4. Minimum Loads are required.
5. (-T) indicates Terminal Block option for input and output (instead of Molex type).

### Power Derating Curve



Mechanical Drawing



Astec

5810 Van Allen Way  
Carlsbad, CA 92008  
USA  
Telephone: +1 760 930 4600  
Facsimile: +1 760 930 0698

Waterfront Business Park  
Merry Hill, Dudley  
West Midlands, DY5 1LX  
United Kingdom  
Telephone: +44 (0) 1384 842 211  
Facsimile: +44 (0) 1384 843 355

13-15, Shing Wan Road  
Tai Wai, Shatin, N. T.  
Hong Kong  
Telephone: +852 2699 2868  
Facsimile: +852 2699 1770

For global contact, visit:

[www.astecpower.com](http://www.astecpower.com)  
[technicalsupport@astec.com](mailto:technicalsupport@astec.com)

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Pin Assignments

Connector	LPT22	LPT23	LPT24	LPT25
SK1-1	Line	Line	Line	Line
SK1-3	Neutral	Neutral	Neutral	Neutral
SK2-1	+12V	+12V	+12V	+15V
SK2-2	+5V	+5V	+5V	+5V
SK2-3	+5V	+5V	+5V	+5V
SK2-4	Common	Common	Common	Common
SK2-5	Common	Common	Common	Common
SK2-6	-12V	-12V	-5V	-15V
SK201-1	+Sense	+Sense	+Sense	+Sense
SK201-2	-Sense	-Sense	-Sense	-Sense

Mating Connectors

**AC Input:** Molex 09-50-8031 (USA) **Not required for (-T) option**  
09-91-0300 (UK)  
PINS: 08-52-0113

**DC Outputs:** Molex 09-50-8061 (USA) **Not required for (-T) option**  
09-91-0600 (UK)  
PINS: 08-52-0113

**Remote Sense:** Molex 22-01-2025  
PINS: 08-52-0123

Astec Connector Kit #70-841-006, includes all of the above

- Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is  $\pm 0.02"$  ( $\pm 0.5\text{mm}$ )
- Mounting holes M1 and M2 should be grounded for EMI purposes.
- Mounting hole M1 is safety ground connection.
- Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated.
- Warranty: 2 year
- Weight: 0.5lbs/0.23kg

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