

# PAE50/100 Series

High Efficiency Eighth Brick  
DC-DC Converters

- Output currents up to 30A
- RoHS Compliant
- Industry Standard Package and Pinout
- 24V - 48V Input Models
- Output Voltage Adjustment
- Remote On/Off

## Key Market Segments & Applications

- Telecommunications
- Data Communications
- Networking Equipment
- Test Equipment
- Industrial Electronics
- Distributed Power Architecture

### PAE50/100 Features and Benefits

#### Features

- High Efficiency
- Same Pinout as Quarter Bricks
- Meets Basic Isolation

#### Benefits

- Reduces System Heating
- Reduces PCB Area
- Assists Safety Approval

### Specifications

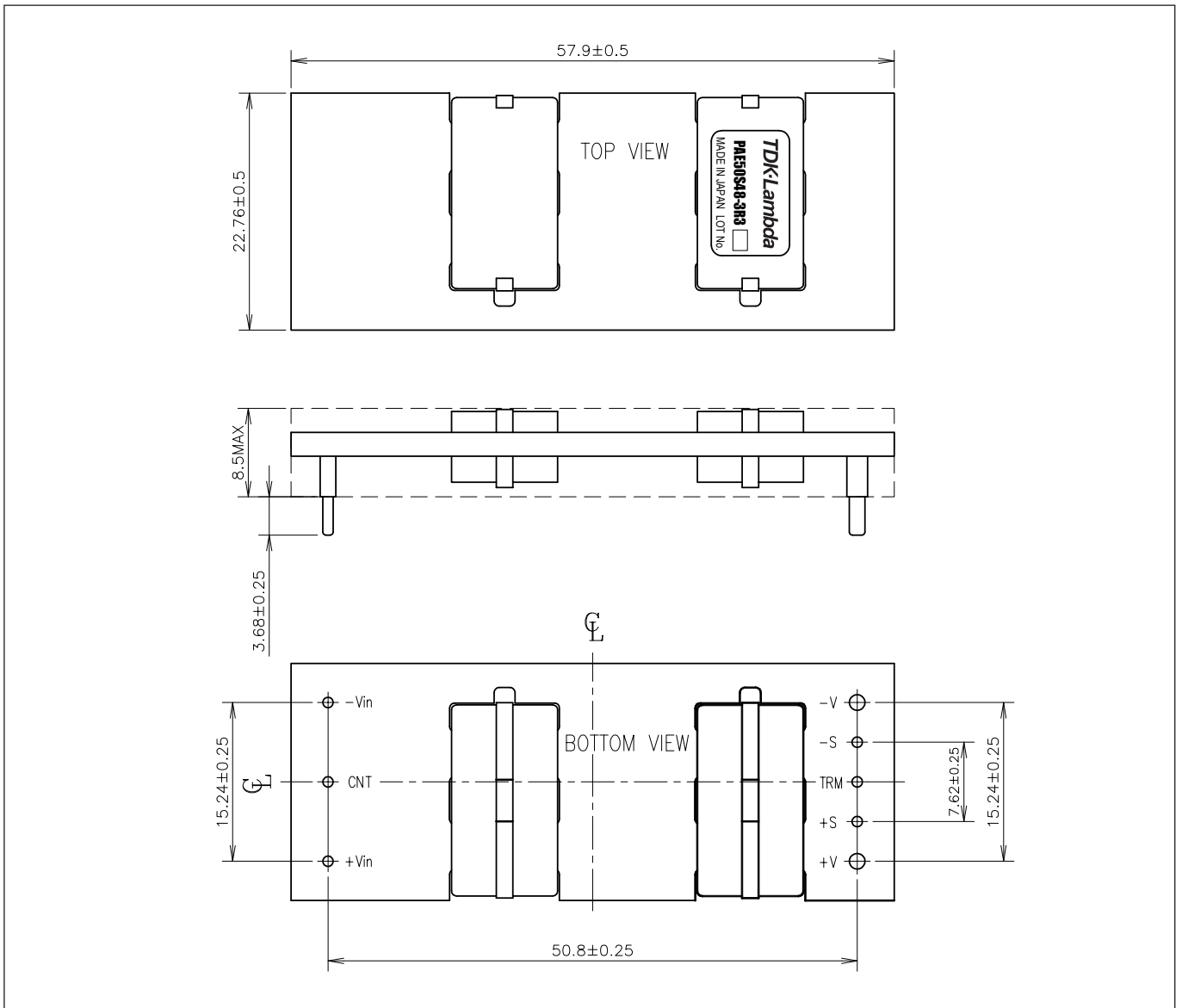
ITEMS	MODELS	PAE50S24	PAE50S48 PAE100S48
		Input Voltage Range	VDC
Output Voltage Accuracy	%		±1
Max Ripple & Noise	mV		100
Max Line Regulation	mV		10
Max Load Regulation	mV		10
Overcurrent Protection (1)	-	PAE50 models 105% - 150%, PAE100 models 105% - 140%	
Overvoltage Protection (max) (2)	-	115% - 135% (120%-140% PAE50S48-5 + PAE100S48-5 only)	
Remote Sense	-	Yes	
Remote On / Off	-	Yes (open = off; short to 0V = on)	
Operating Temperature	°C	-40 to +85	
Operating Humidity	-	5 - 95% RH (non-condensing)	
Storage Temperature	°C	-40 to +100	
Storage Humidity	-	5 - 95% RH (non-condensing)	
Cooling	-	Convection or Forced Air	
I/O Isolation Voltage	-	Input to Output 1500VDC	
Vibration (non operating)	-	10 - 55Hz (1 minute), Amplitude 0.825mm (49m/s <sup>2</sup> max) X, Y, Z 1 hour	
Shock	-	< 196.1 m/s <sup>2</sup>	
Safety Agency Approvals	-	UL60950-1, CSA60950-1, EN60950-1, CE Mark	
Weight (Typ)	g	25	
Size (WxHxD)	mm	22.76 X 8.5 X 57.9 (See Outline Drawing)	
Warranty	-	2 Years	

**Notes:** (1) Converter shut down, auto restart. (2) Auto restart on /V models

<b>Model Selector</b>						
<b>Models</b>	<b>Voltage (V)</b>	<b>Adjust Range</b>	<b>Max. current (A)</b>	<b>Max. Output Power (W)</b>	<b>Efficiency at Full Load (%)</b>	<b>Input Current (A)</b>
PAE50S48-1R8	1.8	1.44 - 1.98	20	36.0	87	0.87
PAE100S48-1R8	1.8	1.44 - 1.98	30	54.0	87	1.30
PAE50S48-2R5	2.5	2.00 - 2.75	18	45.0	89	1.06
PAE100S48-2R5	2.5	2.00 - 2.75	25	62.5	89	1.47
PAE50S48-3R3	3.3	2.64 - 3.63	16	52.8	91	1.21
PAE100S48-3R3	3.3	2.64 - 3.63	25	82.5	91	1.89
PAE50S48-5	5.0	4.25 - 5.75	10	50.0	91	1.15
PAE100S48-5	5.0	4.25 - 5.75	20	100.0	91	2.29
PAE50S24-5	5.0	4.00 - 5.50	10	50.0	91	2.29
PAE50S24-6	6.0	4.80 - 6.60	8.4	50.4	91	2.31
PAE100S48-3R3/H	3.3	2.64 - 3.63	30	99.0	90	2.30

<b>Remote On/Off Options</b>	
<b>Suffix</b>	<b>Function</b>
Blank	Manual Reset
/V	Auto Reset (Preferred)

## Outline Drawing PAE50/100 Series



## Derating Curve PAE100S48-3R3

