

## 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

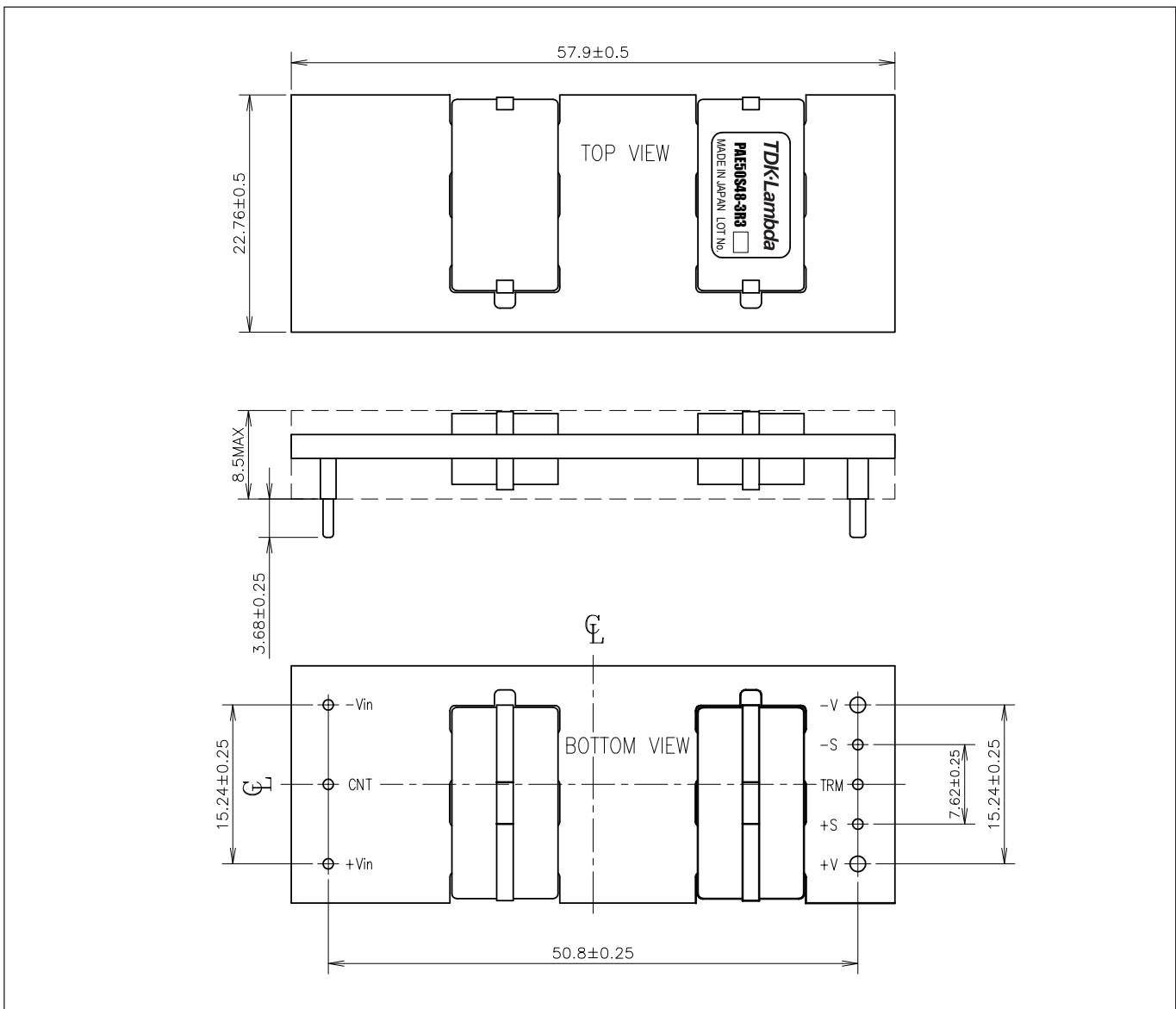
ITEMS	MODELS	PAE50S24	PAE50S48 PAE100S48
		Input Voltage Range	VDC
Output Voltage Accuracy	%		±1
Max Ripple & Noise	mV		100
Max Line Regulation	mV		10
Max Load Regulation	mV		10
Overcurrent Protection (1)	-	PAE50 models 105% - 150%, PAE100 models 105% - 140%	
Overvoltage Protection (max) (2)	-	115% - 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	-	IEC/EN/UL/CSA60950-1, IEC/EN/UL/CSA62368-1 and 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

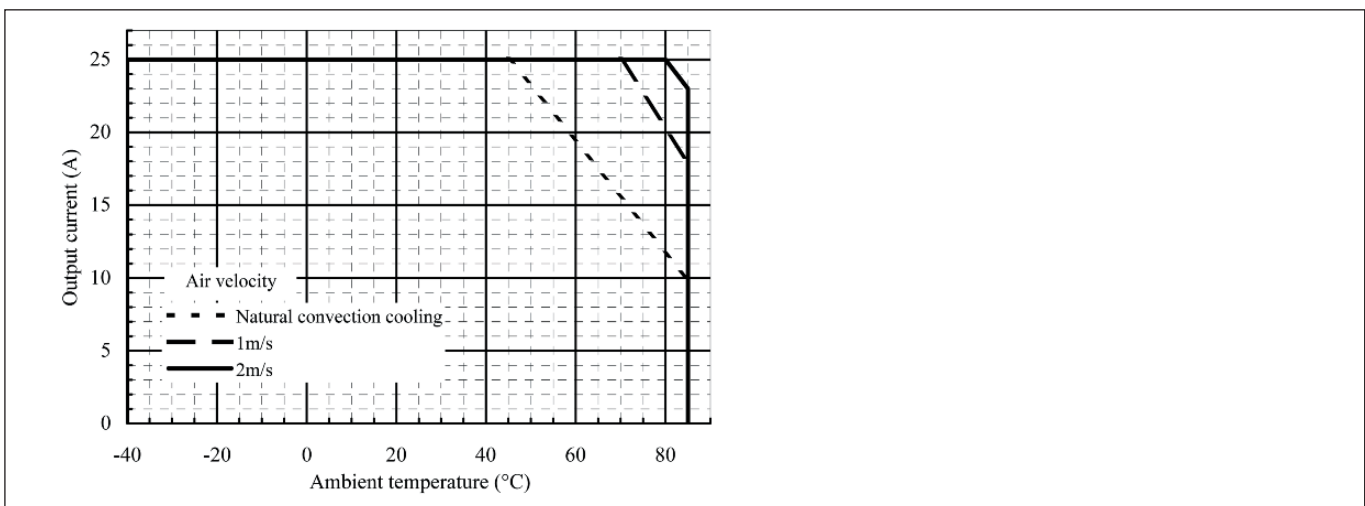
Model Selector						
Models	Voltage (V)	Adjust Range	Max. current (A)	Max. Output Power (W)	Efficiency at Full Load (%)	Input Current (A)
PAE50S48-1R8	1.8	1.44 - 1.98	20	36.0	87	0.87
PAE100S48-1R8	1.8	1.44 - 1.98	30	54.0	87	1.30
PAE50S48-2R5	2.5	2.00 - 2.75	18	45.0	89	1.06
PAE100S48-2R5	2.5	2.00 - 2.75	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

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

## Outline Drawing PAE50/100 Series



## Derating Curve PAE100S48-3R3





## TDK-Lambda France SAS

Tel: +33 1 60 12 71 65  
 tlf.fr.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/fr



## Italy Sales Office

Tel: +39 02 61 29 38 63  
 tlf.it.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/it



## Netherlands

tlf.nl.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/nl



## TDK-Lambda Germany GmbH

Tel: +49 7841 666 0  
 tlq.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/de



## Austria Sales Office

Tel: +43 2256 655 84  
 tlq.at.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/at



## Switzerland Sales Office

Tel: +41 44 850 53 53  
 tlq.ch.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/ch



## Nordic Sales Office

Tel: +45 8853 8086  
 tlq.dk.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/dk



## TDK-Lambda UK Ltd.

Tel: +44 (0) 12 71 85 66 66  
 tlu.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/uk



## TDK-Lambda Ltd.

Tel: +9 723 902 4333  
 tli.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/il-en



## TDK-Lambda Americas

Tel: +1 800-LAMBDA-4 or 1-800-526-2324  
 tla.powersolutions@tdk.com  
 www.us.lambda.tdk.com



## TDK Electronics do Brasil Ltda

Tel: +55 11 3289-9599  
 sales.br@tdk-electronics.tdk.com  
 www.tdk-electronics.tdk.com/en



## TDK-Lambda Corporation

Tel: +81-3-6778-1113  
 www.jp.lambda.tdk.com



## TDK-Lambda (China) Electronics Co. Ltd.

Tel: +86 21 6485-0777  
 tlc.powersolutions@tdk.com  
 www.lambda.tdk.com.cn



## TDK-Lambda Singapore Pte Ltd.

Tel: +65 6251 7211  
 tfs.marketing@tdk.com  
 www.sg.lambda.tdk.com



## TDK India Private Limited, Power Supply Division

Tel: +91 80 4039-0660  
 mathew.philip@tdk.com  
 www.sg.lambda.tdk.com

