

- 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 Series

High Efficiency Eighth Brick
DC-DC Converters

PAE50/100 Features and Benefits

Features	Benefits
• High Efficiency	• Reduces System Heating
• Same Pinout as Quarter Bricks	• Reduces PCB Area
• Meets Basic Isolation	• Assists Safety Approval

Specifications

ITEMS / MODELS			PAE50S24	PAE50S48 PAE100S48
Input Voltage Range		VDC	18-36	36-76
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^2 max) X, Y, Z 1 hour	
Shock		-	< 196.1 m/s^2	
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

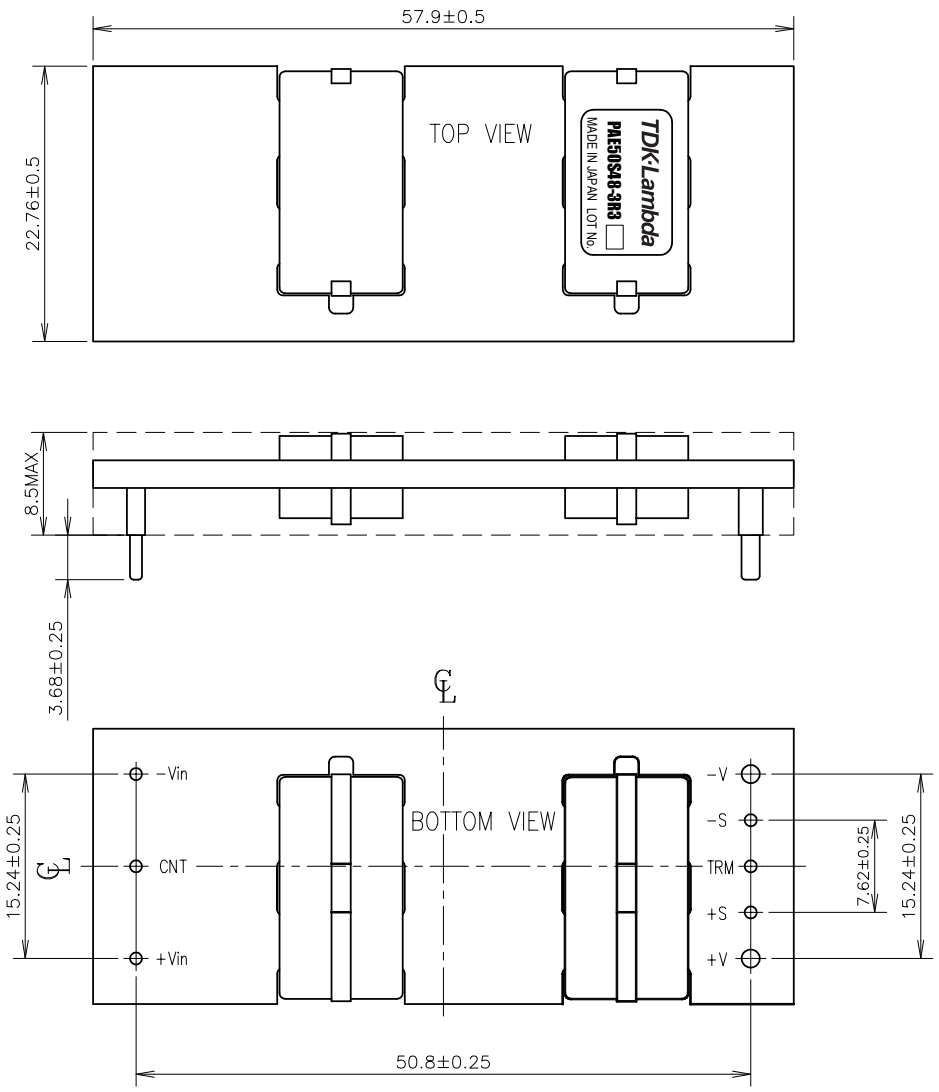
Model Selector

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

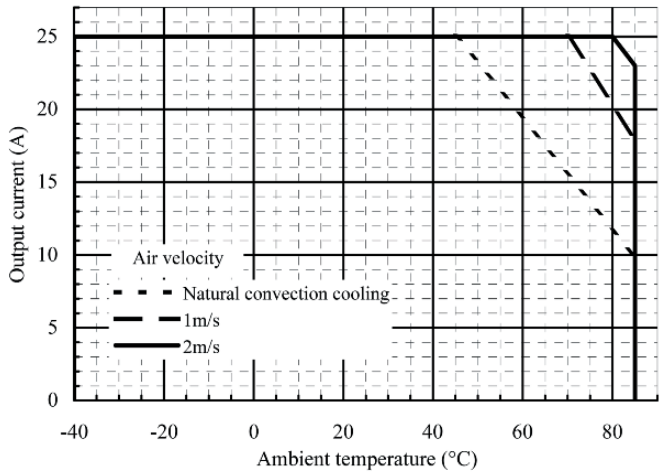
Remote On/Off Options

Suffix	Function
Blank	Manual Reset
/V	Auto Reset (Preferred)

Outline Drawing PAE50/100 Series



Derating Curve PAE100S48-3R3





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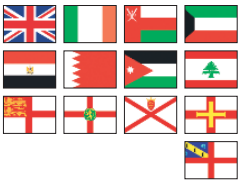

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