

- 12V output for driving non-isolated converters
- Safety Approved
- Operation at +100°C baseplate
- Wide Adjustable Output Range
- Industry Standard Half Brick Package

Key Market Segments & Applications

- Base Station Power Amplifiers
- Bus converters for Distributed Power Architectures

PAH300/450 Series

300W to 450W 24V & 48V Input Half Brick DC-DC Converters

PAH Features and Benefits

Features

- Wide adjustment range
- Compact size
- ASIC Design
- 24V & 48V inputs

Benefits

- Reduces need for custom modules
- Replaces 3/4 or Full Brick Power Modules
- Reduced component count, increased MTBF
- Suitable for remote & central office applications

Specifications

ITEM	MODELS	PAH300S, 350S, 450S		
		12V	28V	48V
Nominal Output Voltage	VDC	12V	28V	48V
Input Voltage range	VDC	18-36 or 36-76		
Input Current (Max)	A	8.24-17.4A (model dependant)		
Output Voltage Adjustment	VDC	7.2 - 13.2	16.8 - 33	28.8 - 57.6(5)
Ripple & Noise (max) (pk to pk)	mV	200	280(1)	480
Line Regulation (max)	mV	24	56	96
Load Regulation (max)	mV	24	56	96
Overload Protection	%	105 - 140%, constant current with auto recovery		
Overvoltage Protection (3)	%	115-135%	125-140%(2)	125-145%(6)
Remote Sense	-	Yes		
Remote On/Off	-	Low = ON, Open = OFF		
Temperature (operating)	°C	-40°C to +100°C baseplate, full power(4)		
Temperature (storage)	°C	-40°C to +100°C		
Temperature Coefficient	-	0.02%/°C		
Humidity (operating)	-	5 - 95% RH Non condensing		
Humidity (storage)	-	5 - 95% RH Non condensing		
Cooling	-	Conduction (See Installation Manual for heatsink selection)		
Isolation Voltage	VDC	1500VDC Input to output & baseplate, 500VDC Output to baseplate		
Vibration	-	Non Operating, 10-55Hz (sweep for 1 min.)		
Amplitude	-	0.825mm constant (Max 49 m/s ²) X,Y,Z 1 hour each		
Shock	-	196.1m/s ²		
Safety Agency Approvals	-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark		
Weight (Typ)	g	90/100		
Size (WxHxD)	mm	61x12.7x57.9 See outline drawing		
Warranty	yrs	2		

Note: See Installation Manual for full details, test methods of parameters and application notes

- (1) 240mV for PAH300
- (2) 125-145% for PAH450S48-28
- (3) Manual reset

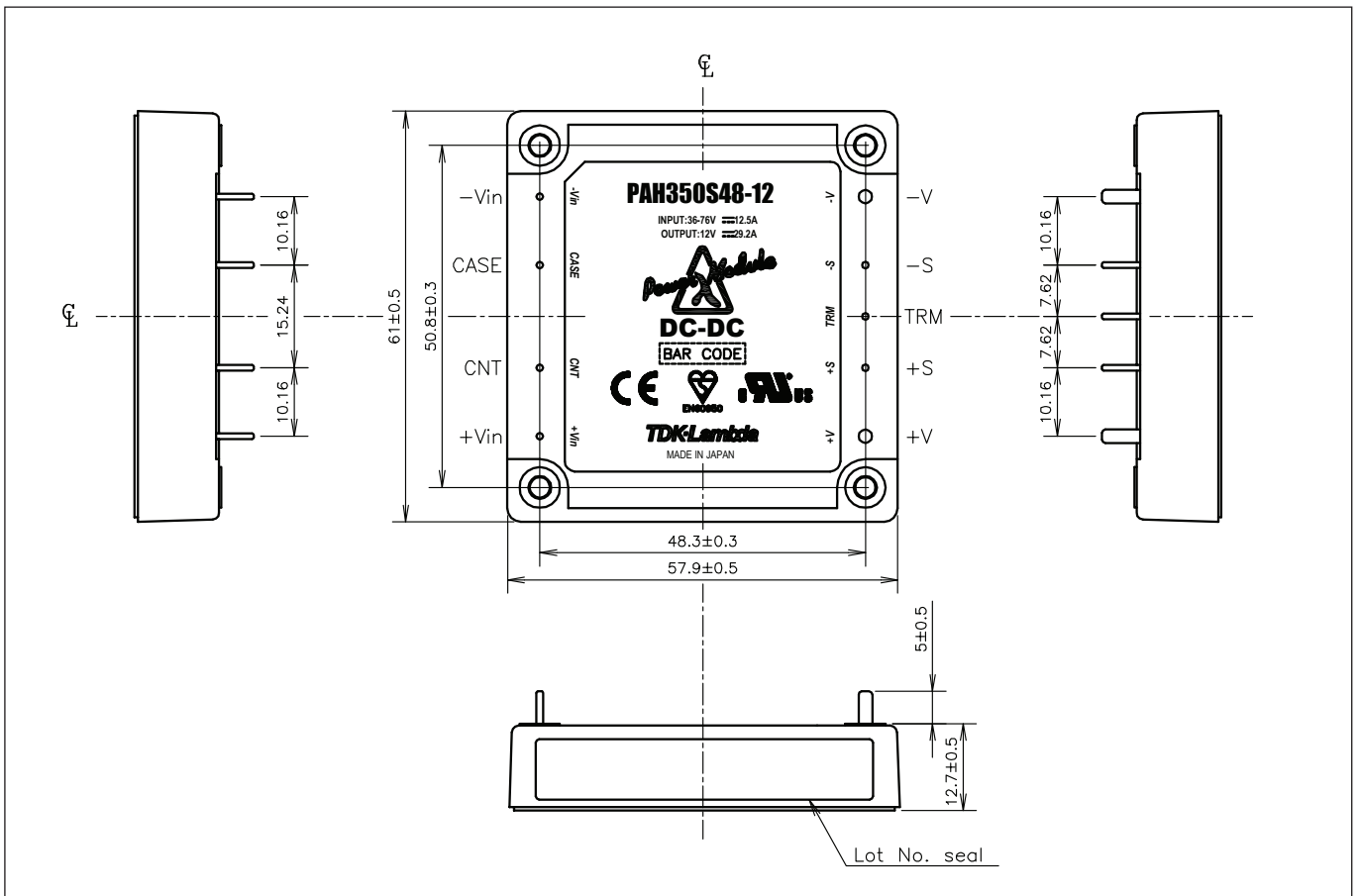
- (4) PAH350S24-28 & -48 derate linearly to 85% load from 90°C to 100°C
- (5) 28.8-52.8 PAH350S24-48
- (6) 115-140% PAH350S24-48

Model Selector					
Model	Input Voltage (V)	Output Voltage (V)	Max. Curr. (A)	Max. Output Power (W)	Efficiency Typ. (%)
PAH300S24-12	18 - 36	12	25	300	87
PAH300S48-12	36 - 76	12	25	300	90
PAH350S48-12	36 - 76	12	29.2	350	89
PAH300S24-28	18 - 36	28	11	308	88
PAH350S24-28	18 - 36	28	12.5	350	88
PAH350S24-48	18 - 36	48	7.3	350	87
PAH300S48-28	36 - 76	28	11	308	90
PAH350S48-28	36 - 76	28	12.5	350	89
PAH450S48-28	36 - 76	28	16	448	92
PAH450S48-48	36 - 76	48	9.4	451	92

Pinout	
Pin Description	Function
-Vin	Negative Input Terminal
+Vin	Positive Input Terminal
CNT	On / Off Control terminal
+V	Positive Output Terminal
-V	Negative Output Terminal
TRIM	Output adjustment Trim pin
+S	Positive Remote sense
-S	Negative Remote sense

Options	
Suffix	Description
-	M3 Tapped inserts for mounting
/T	M3 clearance inserts for mounting

Outline Drawing PAH300/450 Series





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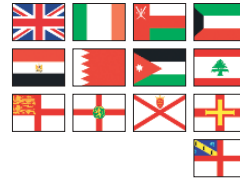
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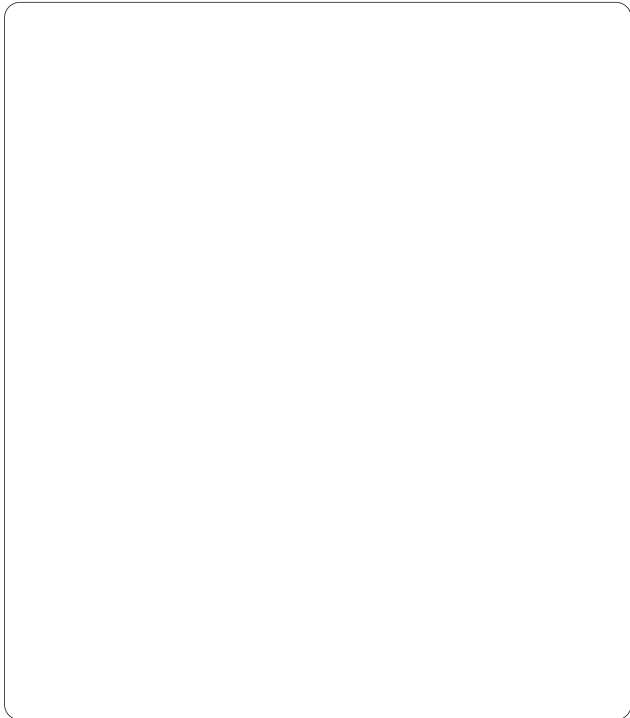
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