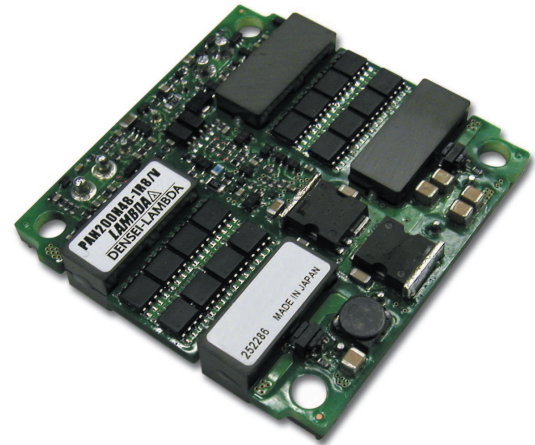


High Current Half Brick DC-DC Converters

Features

- ◆ Industry Standard Package
- ◆ Low voltage outputs to 0.96V
- ◆ Output Currents up to 70A
- ◆ Designed for telecom standards
- ◆ Output voltage adjustment
- ◆ Remote On / Off
- ◆ High Efficiency
- ◆ Wide adjustment range
- ◆ ASIC Design
- ◆ No potting materials



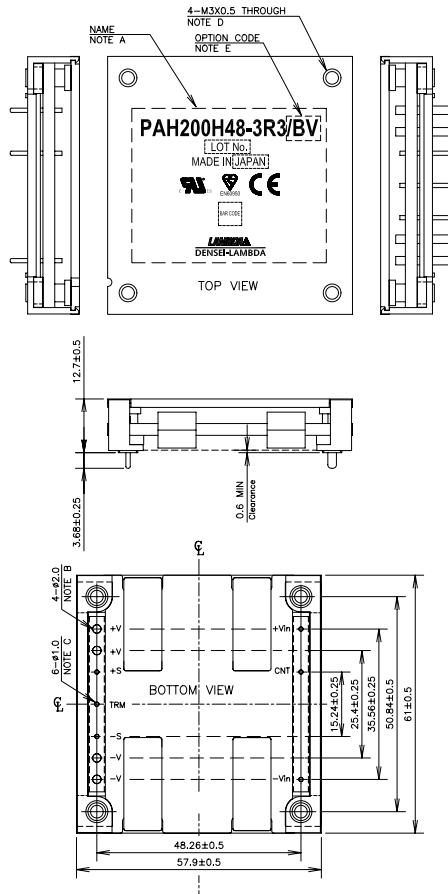
Key Market Segments & Applications



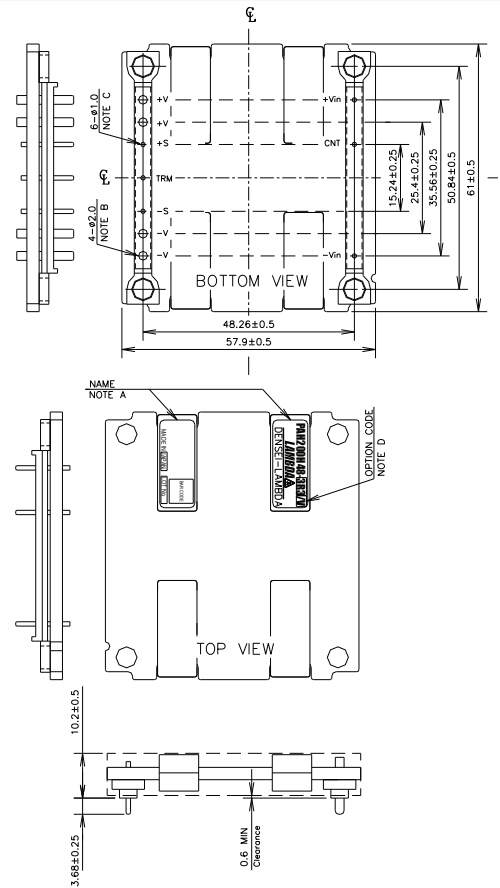
Specifications		PAH200H48-1R2	PAH200H48-1R5	PAH200H48-1R8	PAH200H48-2R5	PAH200H48-3R3
Model		(/C version)	(/C version)	(/C version)	(/C version)	(/C version)
Nominal Output Voltage	VDC	1.2	1.5	1.8	2.5	3.3
Output Current (Max)	A	70 (60)	70 (60)	70 (60)	70 (60)	60 (50)
Max Output Power	W	84(72)	105(90)	126 (108)	175 (150)	198 (165)
Efficiency (Typ)	%	82	84	87	88	90
Input Voltage range	VDC	36 - 76V (100V for 100ms)				
Input Current (typ)	A	2.18 (1.87)	2.66 (2.28)	3.08 (2.64)	4.23 (3.63)	4.68 (3.90)
Output Voltage Accuracy	%	±1				
Output Voltage Adjustment	V	0.96-1.32	1.2-1.65	1.44 - 1.98	2.0 - 2.75	2.805 - 3.795
Max Ripple & Noise	mV	100				
Max Line Regulation	mV	10				
Max Load Regulation	mV	10				
Overcurrent Protection	-	105 - 140% (See Options)				
Overvoltage Protection	-	120 - 140% (See Options)				
Remote Sense	-	Yes				
Remote On / Off	-	Yes (See options)				
Operating Temperature	-	-40°C to +85°C (100°C /B option) Baseplate temperature				
Operating Humidity	-	5 - 95% Non condensing				
Storage Temperature	-	-40°C to +100°C				
Cooling	-	Convection, or forced air				
I/O Isolation Voltage	-	Input to Output 1500VAC Output to Case 500VAC				
Vibration (non operating)	-	10~55Hz (1 minute), amplitude 0.825mm (49m/s ² max), X, Y, Z 1 hr ea.				
Shock	-	196.1 m/s ²				
Safety Agency Approvals	-	UL1950, CSA950, EN60950, & CE				
Weight (Typ)	g	90				
Size (WxHxD)	in(mm)	2.28 x 0.4* x 2.4 (57.9 x 10.2* x 61); * /B version 0.5 (12.7)				
Warranty	yrs	Two Years				

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

Outline Drawing



Outline Drawing



Options

Suffix	OCP / OVP	Remote On / Off
Blank	Manual Reset	Negative, Short = On
/V*	Auto Reset	Negative, Short = On
/P	Manual Reset	Positive, Open = On
/PV*	Auto Reset	Positive, Open = On
/C**	Single set of O/P pins	
/B	Baseplate Fitted	
Note	Suffix letter order: /C followed by /P followed by /V Example: /CPV.	
*	Standard US Stock Item.	
**	See website for outline drawing—not available with /B option.	

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

Other DC-DC Products

PAF	500, 600, & 700W Full brick DC-DC
PAH	50W to 350W Half brick DC-DC
PAQ	Up to 100W Quarter brick DC-DC
SX	20W surface mount 24V & 48VDC-DC
X	10, 15, 20W 24V & 48VDC Input DC-DC converters

For Additional Information, please visit
us.tdk-lambda.com/lp/products/pah200h-series.htm

