

## 48V Input Full brick DC-DC Converters

### Features

- ◆ 12V output for driving non-isolated converters
- ◆ Safety Approved
- ◆ Full power at 85°C baseplate, operation to 100°C
- ◆ Opto Isolated Remote On / Off
- ◆ Wide Adjustable Output Range
- ◆ Parallel Pin
- ◆ ASIC Design



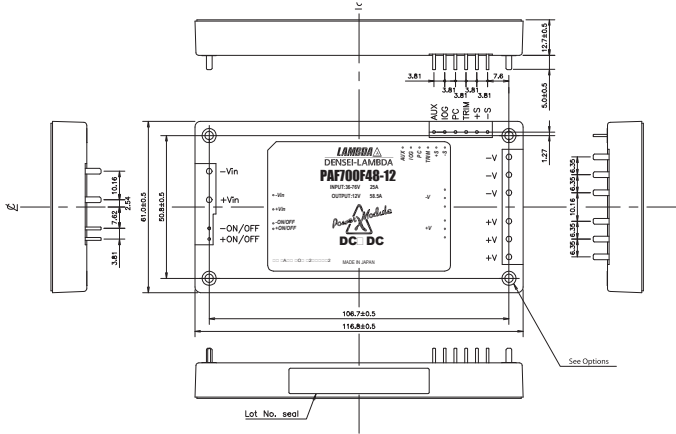
### Key Market Segments & Applications



Specifications			PAF700F48-12	PAF700F48-28
Nominal Output Voltage	VDC		12	28
Output Current (Max)	A		58.5	25
Output Power (Max)	W		702	700
Efficiency (Typ)	%		90 to 91%	
Input Voltage Range	VDC		36-76	
Input Current (Typ)	A		16.5	16.4
Output Voltage Accuracy	%		±1	
Output Voltage Adjustment	VDC		7.2 - 13.8	16.8 - 32.2
Ripple & Noise (Max)	mV		200	280
Line Regulation (Max)	mV		24	56
Load Regulation (Max)	mV		24	56
Temperature Coefficient	-		0.02%/°C	
Overcurrent Protection	%		105 - 140%	
Overvoltage Protection	%		120 - 135%	
Signals & Control	-		Remote sense, remote On/Off, Parallel Pin, DC Good, 7-10V Auxiliary voltage	
Operating Temperature	°C		-40°C to +100°C baseplate	
Humidity (operating)	-		20-95% RH Non condensing	
Humidity (storage)	-		10-95% RH Non condensing	
Cooling	-		Conduction (See Installation Manual for heatsink selection)	
Isolation Voltage	VDC		Input - Baseplate 1500V, Input - Output 1500V, Output-Baseplate 500V (for 1 min.)	
Shock	-		196.1m/s <sup>2</sup>	
Vibration	-		Non Operating, 10-55Hz (sweep for 1 min.) Amplitude 0.825mm constant (Max 49 m/s <sup>2</sup> ) X,Y,Z 1 hour each	
Safety Agency Approvals	-		IEC/UL/CSA/EN62368-1, 60950-1, CE Mark	
Weight (Typ)	g		200	
Size (WxHxD)	in(mm)		2.4 x 0.5 x 4.6 (61 x 12.7 x 116.8) See outline drawing	
Warranty	yrs		2 years	

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

## PAF Outline Drawing



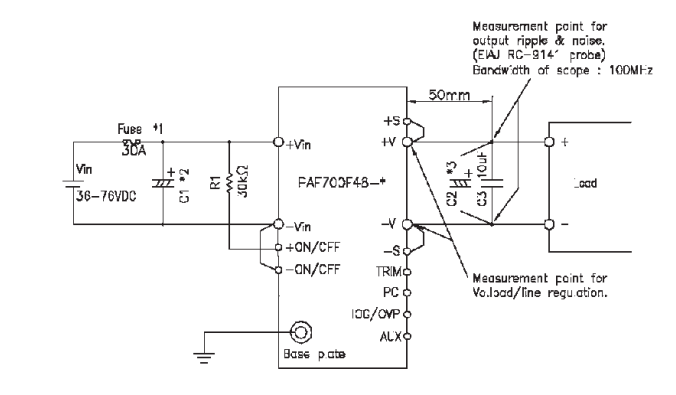
## Pinout

Pin Description	Function
-Vin	Negative Input Terminal
+Vin	Positive Input Terminal
- ON/OFF	Remote On/Off Negative Terminal
+ON/OFF	Remote On/Off Positive Terminal
+V	Positive Output Terminal
-V	Negative Output Terminal
AUX	7-10V Aux Voltage
IOG	DC Good
PC	Parallel Control Connection
TRIM	Output Adjustment Trim Pin
+S	Positive Remote Sense
-S	Negative Remote Sense

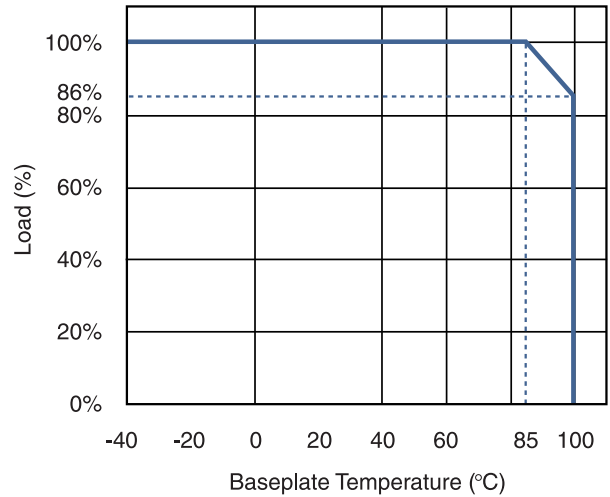
## Other DC-DC Products

PAF	Full Brick 400-700W DC-DC
PAH	Half brick DC-DC
PAQ	Quarter brick DC-DC
PX	10-60W, 12-48V DC-DC

## Connection Example



## Derating Curve



## Options

Suffix	Description
Blank	M3 tapped inserts (4)
/T	3.3mm non-threaded inserts (4)

## Heatsink Table

Heatsink	Size (mm)	Thermal Resistance
HAF-10L	116.8 x 25.4 x 61	2.2°C/W
HAF-15L	116.8 x 38.1 x 61	1.9°C/W
HAF-15T	116.8 x 38.1 x 61	1.5°C/W

For Additional Information, please visit <https://product.tdk.com/info/en/products/power/index.html>



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