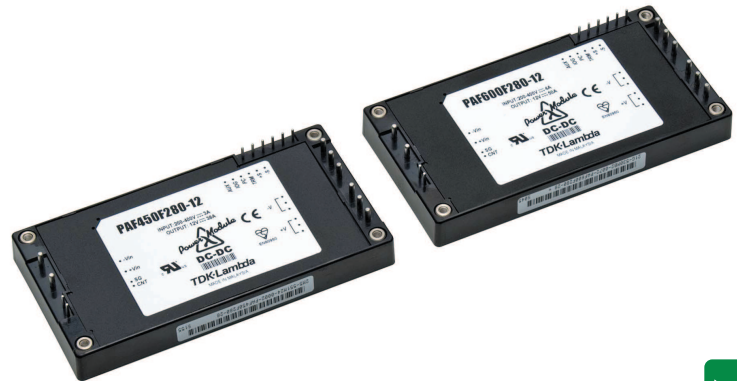


200V to 400VDC Input Full brick DC-DC Converters

Features

- ◆ Output Voltages from 7.2V to 57V
- ◆ 450W to 600W Output Power
- ◆ Current Share
- ◆ Operation to 100°C Baseplate
- ◆ Wide Adjustable Output Range
- ◆ Parallel Pin
- ◆ High Efficiency - up to 91%



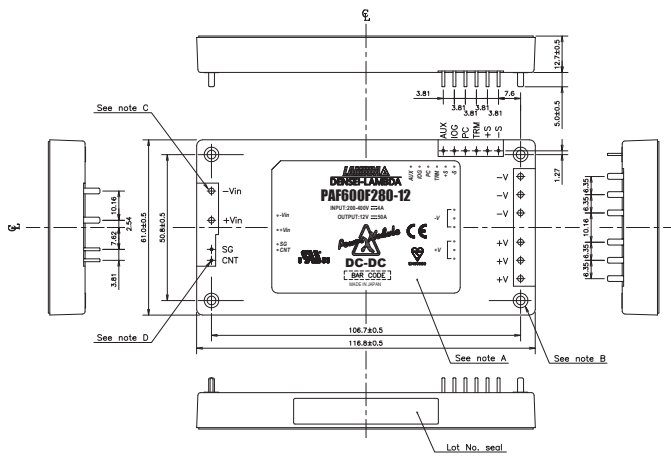
Key Market Segments & Applications



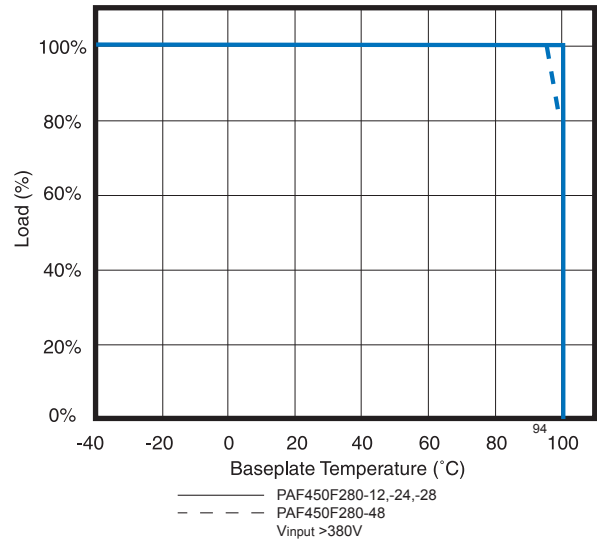
Specifications			PAF450F280-12	PAF450F280-24	PAF450F280-28	PAF450F280-48
Model			PAF600F280-12	PAF600F280-24	PAF600F280-28	PAF600F280-48
Nominal Output Voltage	VDC		12	24	28	48
Output Current (Max)	450W 600W	A	38 50	19 25	16.5 21.5	9.5 12.5
Max Output Power	450W 600W	W	456 600	456 600	462 602	456 600
Efficiency (Typ)		%	89-90	91	91	91
Input Voltage Range	VDC		200-400VDC			
Output Voltage Accuracy		%	±1			
Output Voltage Adjustment	VDC		7.2 - 14.4	14.4 - 28.8	16.8 - 33.6	28.8 - 57.6
Max Ripple & Noise		mV	120	240	280	480
Max Line Regulation		mV	48	56	56	96
Max Load Regulation		mV	48	56	56	96
Temperature Coefficient		°C	0.02%/°C			
Overcurrent Protection		%	105 - 140%			
Overvoltage Protection		%	125 - 145%			
Signals & Control	-		Remote Sense, Remote On/Off, Parallel Pin, Inverter Good, 11-14V Auxiliary voltage			
Baseplate Temperature	-		-40°C to +100°C Baseplate: (See derating chart)			
Humidity (non condensing)	-		5 - 95% RH Operating, 5 - 95% RH Non Operating			
Cooling	-		Conduction (See Installation Manual for heatsink selection)			
Isolation Voltage	-		Input to Baseplate: 2500VAC (20mA); Input to Output 3000VAC for 1 min.; Output to Baseplate: 500VDC for 1 min			
Shock	-		196.1m/s ²			
Vibration	-		Non Operating, 10-55Hz (sweep for 1 min.) Amplitude 0.825mm constant (Max 49 m/s ²) X,Y,Z 1 hour each			
Safety Agency Approvals	-		UL60950-1, CSA60950-1, EN60950-1, CE LVD			
Weight (Typ)		g	200			
Size (WxHxD)		mm	2.4 x 0.5 x 4.6 (61 x 12.7 x 116.8) See outline drawing			
Warranty		yr	2 years			

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

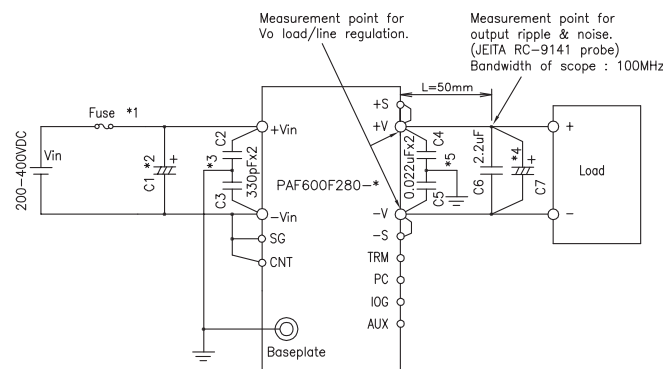
PAF Outline Drawing



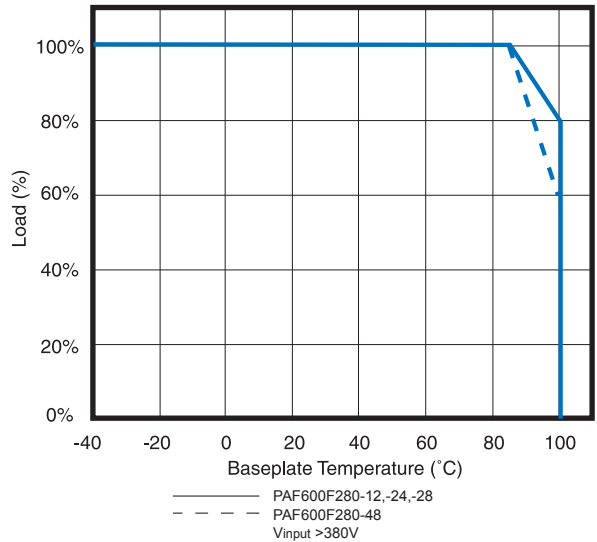
Derating Curve PAF450F280



Connection Example



Derating Curve PAF600F280



Pinout

Pin Description	Function
-Vin	Negative Input Terminal
+Vin	Positive Input Terminal
CNT	Remote On/Off
+V	Positive Output Terminal
-V	Negative Output Terminal
AUX	11-14V Aux Voltage
PC	Parallel Control Connection
TRIM	Output Adjustment Trim Pin
+S	Positive Remote Sense
-S	Negative Remote Sense
SG	Remote ON/OFF Return

Other DC-DC Products

PAF	400-700W Full brick DC-DC
PAH300/450	300-450W Half Brick 24 & 48V Input
PH-F	Full function 200-400V Input DC-DC
PH-S	Simple function 200-400V Input DC-DC
PF	Power factor AC - 380VDC Front End
PFE	300-1000W, AC-DC Power module

Options

Suffix	Description
Blank	M3 tapped mounting 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
us.tdk-lambda.com/lp/products/paf400-series.htm

