

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%



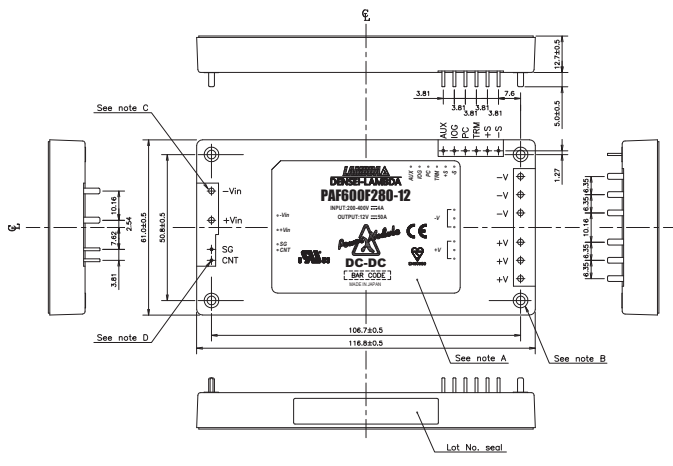
Key Market Segments & Applications



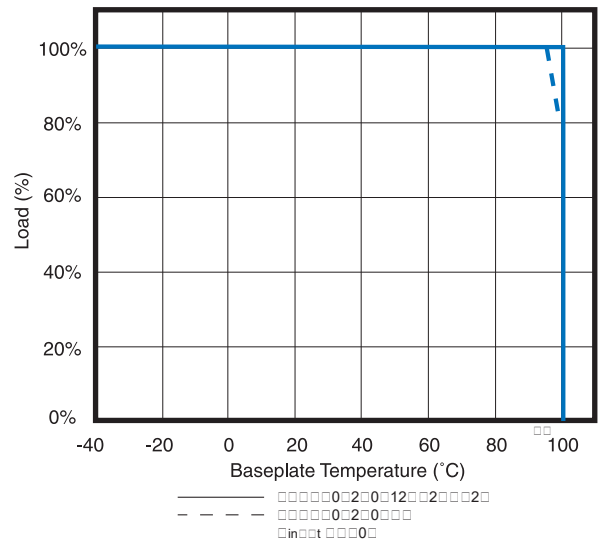
Specifications			PAF450F280-12	PAF450F280-24	PAF450F280-28	PAF450F280-48
Model			PAF600F280-12	PAF600F280-24	PAF600F280-28	PAF600F280-48
Nominal Output Voltage	VDC		12	24	28	48
Output Current (Max)	450W	A	38	19	16.5	9.5
	600W		50	25	21.5	12.5
Max Output Power	450W	W	456	456	462	456
	600W		600	600	602	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	-		IEC/UL/CSA/EN62368-1, 60950-1, CE Mark			
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	yrs		2 years			

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

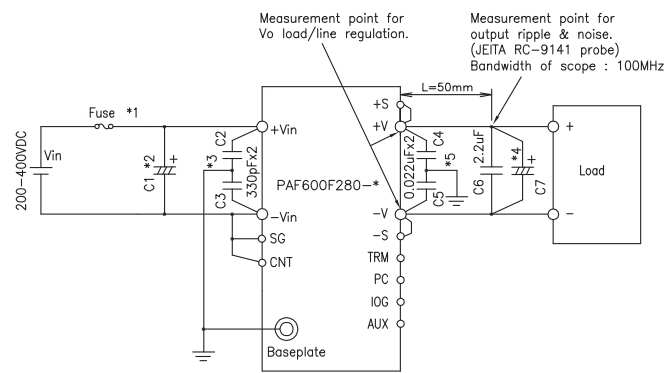
PAF Outline Drawing



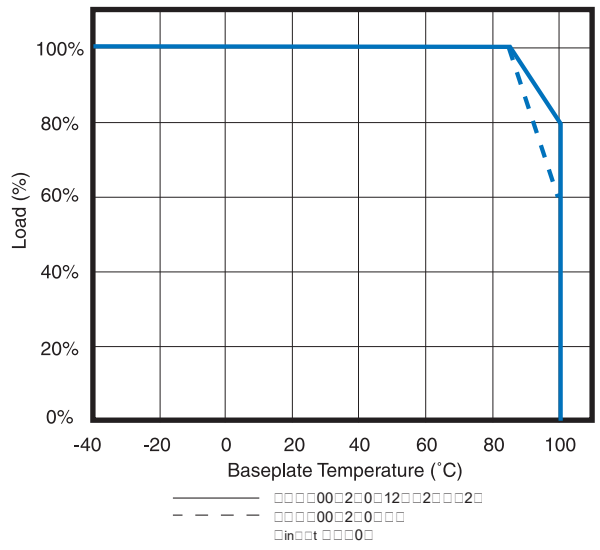
Derating Curve PAF450F280



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 <https://product.tdk.com/info/en/products/power/index.html>



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Isolated DC/DC Converters](#) category:

Click to view products by [TDK-Lambda](#) manufacturer:

Other Similar products are found below :

[ESM6D044440C05AAQ](#) [FMD15.24G](#) [PSL486-7LR](#) [PSR152.5-7IR](#) [Q48T30020-NBB0](#) [AVO240-48S12B-6L](#) [AVO250-48S28B-6L](#) [NAN-0505](#) [HW-L16D](#) [JAHW100Y1](#) [217-1617-001](#) [22827](#) [SPB05C-12](#) [SQ24S15033-PS0S](#) [18952](#) [19-130041](#) [CE-1003](#) [CE-1004](#) [GQ2541-7R](#) [PSE1000DCDC-12V](#) [RDS180245](#) [MAU228](#) [419-2065-201](#) [449-2075-101](#) [V300C24C150BG](#) [419-2062-200](#) [419-2063-401](#) [419-2067-101](#) [419-2067-501](#) [419-2068-001](#) [DFC15U48D15](#) [449-2067-000](#) [XGS-0512](#) [XGS-1205](#) [XGS-1212](#) [XGS-2412](#) [XGS-2415](#) [XKS-1215](#) [033456](#) [NCT1000N040R050B](#) [SPB05B-15](#) [SPB05C-15](#) [VI-26B-CU](#) [V24C12C100BG](#) [L-DA20](#) [HP3040-9RG](#) [HP1001-9RTG](#) [DCG40-5G](#) [XKS-2415](#) [XKS-2412](#)