

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.

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