

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.

