

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) | A | 450W | 38 | 19 | 16.5 | 9.5 | | | | | |
| | | 600W | 50 | 25 | 21.5 | 12.5 | | | | | |
| Max Output Power | W | 450W | 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 | | 270 | 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.

PAF450F280 last time buy September 2023
PAF600F280 not recommended for new designs

