

PAF SERIES

DC/DC Single Output: 450 ~ 700 watts



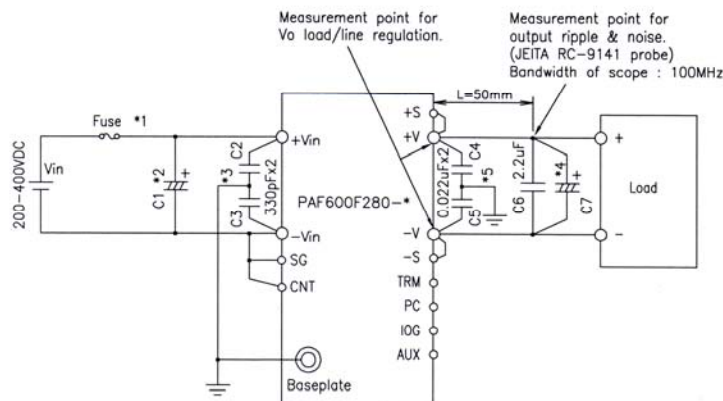
Features

- Input options; 24V, 48V and 280VDC
- Power levels 450 ~ 700 watts, Full Brick
- Output voltage options 3.3V ~ 48V
- Wide output external voltage trim
- Parallel operation with power sharing
- 100°C operation Baseplate temperature
- Fully isolated input – output
- Overload and over voltage protection
- Safety approvals & CE marked
- High Efficiency up to 90%
- Suitable for Customer Designed power supplies

Specifications:

Input Voltage	24VDC (19 ~ 36) 48VDC (36 ~ 76) 280VDC (200 ~ 400)
Input Current	PAF500F24: 24A PAF600F24: 29A PAF500F48: 7~12A PAF600F48: 14A PAF700F48: 16.5A PAF450F280: 1.8A PAF600F280: 2.4A
Efficiency	Model dependant 78 ~ 91%
Output Voltage	3.3 to 48vdc (refer to table)
Output Voltage Trim	By external trim network Refer to output table
Output Ripple & Noise	3.3V & 5V /100mV, 12V / 120mV 24V / 240mV, 28V / 280mV, 48V / 480mV
Line Regulation	Typically 0.2%
Load Regulation	3.3V & 5V /100mV, 12V / 48mV 24V / 56mV, 28V / 56mV, 48V / 96mV
Overload Protection	Constant current limit with auto recovery set at 105 ~ 140%.
Overvoltage Protection	Inverter Shutdown at 125 ~ 145%, recycle input power to reset.
Remote ON / OFF	Yes (Short = ON, Open = OFF)
Parallel Operation	Yes, with Power Share

Remote Sense	Yes
Operating Temp.	-40°C to +100°C Baseplate temperature, with over temperature protection.
Over Temperature protection	Operates when internal temperature of module abnormally rises. OTP operates at 105°C ~ 130°C Baseplate temperature.
Operating Humidity	5 ~ 95% RH Non-condensing
Cooling	Conduction cooling via Baseplate, refer to manual.
Temp. Coefficient	0.02% per °C
Isolation Voltage (280V input)	Input – Output: 3.0KVAC. Input – Baseplate: 2.5KVAC. Output – Baseplate: 500VDC
Isolation Voltage (24 / 48V inputs)	Input – Output: 1.5KVAC. Input – Baseplate: 1.5KVAC. Output – Baseplate: 500VDC
Vibration	Non operating, 10-55Hz (sweep for 1 min) Amplitude 0.285mm constant (max 49m/s ²) X,Y,Z for 1 hour.
Shock	196.1m / s ²
Safety	UL60950-1, EN60950-1
Dimensions	117 x 61 x 12.7mm
Weight	Model dependant 200 ~ 250g



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Model	Input V	Output		Output Voltage Range	Power W
		V	A		
PAF500F24-12	24V	12V	42A	7.2 ~ 13.2V	504W
PAF500F24-28	24V	28V	18A	14.4 ~ 30.8V	504W
PAF600F24-12	24V	12V	50A	7.2 ~ 13.2V	600W
PAF600F24-28	24V	28V	21.5A	16.8 ~ 30.8V	600W
PAF500F48-3.3	48V	3.3V	80A	1.98 ~ 3.9V	264W
PAF500F48-5	48V	5.0V	80A	3.00 ~ 6.0V	400W
PAF500F48-12	48V	12V	42A	7.2 ~ 13.2V	500W
PAF500F48-28	48V	28V	18A	16.8 ~ 30.8V	500W
PAF600F48-12	48V	12V	50A	7.2 ~ 13.2V	600W
PAF600F48-28	48V	28V	21.5A	16.8 ~ 30.8V	600W
PAF700F48-12	48V	12V	58.5A	7.2 ~ 13.2V	700W
PAF700F48-28	48V	28V	25A	16.8 ~ 30.8V	700W
PAF450F280-12	280V	12V	38A	7.2 ~ 14.4V	456W
PAF450F280-24	280V	24V	19A	14.4 ~ 28.8V	456W
PAF450F280-28	280V	28V	16.5A	16.8 ~ 33.6V	462W
PAF450F280-48	280V	48V	9.5A	28.8 ~ 57.6V	456W
PAF600F280-12	280V	12V	50A	7.2 ~ 14.4V	600W
PAF600F280-24	280V	24V	25A	14.4 ~ 28.8V	600W
PAF600F280-28	280V	28V	21.5A	16.8 ~ 33.6V	600W
PAF600F280-48	280V	48V	12.5A	28.8 ~ 57.6V	600W

- Model Suffix: Blank = (M3 tapped mounting inserts (4), /T = 3.3mm non-threaded inserts (4)

PAF Mechanical Outline

