PFE700SA SERIES

AC / DC Single Output: 700 Watts





Features

- Full brick AC/DC Power Module in one package
- Non regulated 50-57V output
- Harmonic input correction: EN61000-3-2
- Universal input 85~264vac with PFC
- Wide baseplate temperature -40°C to +100°C
- OVP, OCP and Over temperature protection
- Safety UL60950, EN60950
- · Fully isolated input-output
- External components required for operation, refer to instruction manual.
- PCB mounting

General Specifications

Input Voltage 85 ~ 264 VAC, 47 ~ 63Hz

Input Current 8.0A / 4.0A (100 / 200VAC)

Power Factor 0.95

Output Voltage See table

Output Power 700 watts

Efficiency Typically 89%

Output V Accuracy ±1%

Ripple & Noise 4V

Regulation Line &

Load

50-57V

Over Current Protection 105% ~140% with auto recovery.

Over Voltage Protection 60-69V Inverter shutdown, recycle input to restart.

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Over Temperature

Protection

Yes

Parallel Operation YES – refer to manual

Series Operation Yes – refer to manual

Operating Temperature

Humidity

20 ~ 95% RH No dewdrop

Cooling

Baseplate / Conduction, refer to manual

-40°C to +100°C baseplate temperature

Tem. Coeff

0.02% / °C

Isolation

Input-Output: 3.0KVAC Input-Baseplate: 2.5KVAC

Vibration / Shock

Output-Baseplate: 1.5KVDC 10-55Hz (sweep for 1min)

196.1m/s²

Safety

Approvals UL60950-1, EN60950-1

Size & Weight

116.8 x 61 x 12.7mm 200g

Description

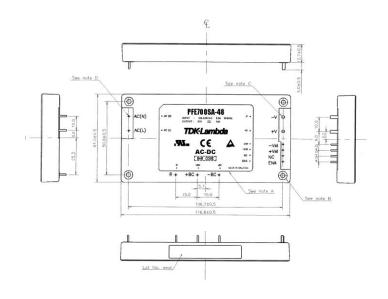
The **PFE700SA** series is a 2^{nd} generation "Full Brick" AC input power supply module , capable of operating up to +100°C base plate temperature.

It offers a <u>single device</u> containing power factor correction, primary secondary isolation, offering up to 50% space savings over previous power module solutions. These power modules meet the needs of many industrial, datacom and telecom applications particularly where high operating the transfer are required and space is at a premium.

The 48V output is a semi regulated supply, intended for driving regulated dc/dc converters.

For full application notes, contact our office.

Model	Output		Voltage	Power
	V	Α	Range	W
PFE500SA-48	51V	14.0A	50-57V	700W



PFE700SA SERIES

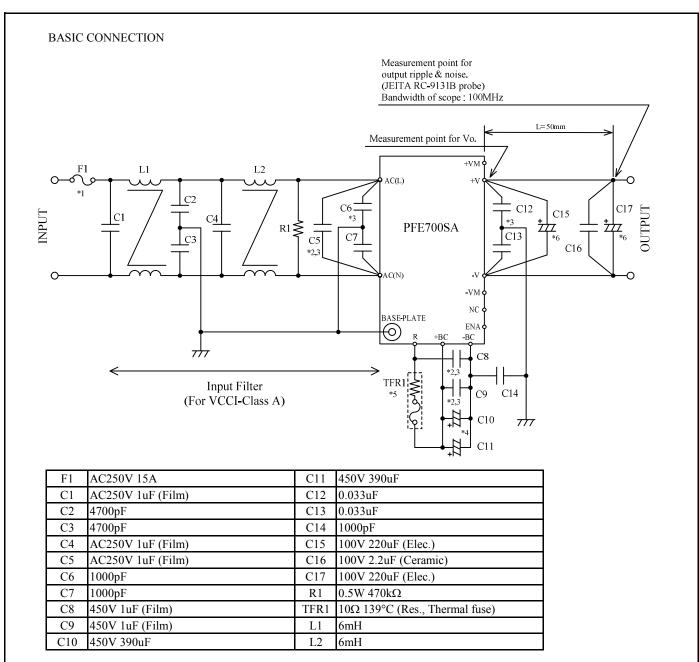
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TDK-Lambda

PFE700SA

C275-01-02



==NOTES==

- *1. Use an external fuse of fast blow type for each unit.
- *2. The allowable ripple current of capacitor must be more than 3A(rms).
- *3. Put this capacitor near the terminal as close as possible.
- *4. The maximum capacitance that can be used is less than 1200uF(Rated capacitance). Avoid the connection of capacitance which is more than above, else it will lead to module to damage.
- *5. The inrush current at AC throw in can be suppressed by the external Resistor (Built-in thermal fuse) connected between the R and +BC terminals.
- *6. If the ambient temperature is less than -20°C, use twice the recommended capacitor above.
- *7. Refer to instruction manual for further details.