

PF & PR SERIES

AC/DC Front End Modules: 500 - 1500 Watts



Features

- Wide input: 85~265VAC
- Output power: 500W and 1500W modules
- 360VDC output PF series
- 280VDC output PR series
- Power factor corrected @ 0.95 PF series
- Conforms to IEC1000-3-2 harmonics PF series
- Wide baseplate operating temperature -20°~85°C
- Parallel and n+1 operation
- Fully isolated output
- International safety approvals and CE marked
- OVP and overtemperature protection
- Fully encapsulated, suitable for harsh environments
- Suitable for a wide range of industrial applications

MODEL	Input VAC	Output VDC	A	Power W
PF500A - 360	100~240V	360V	1.4A	500W
PF500A - 360	200~240V	360V	2.1A	756W
PF1000A - 360	100~240V	360V	2.8A	1008W
PF1000A - 360	200~240V	360V	4.2A	1512W
PR500 - 280	100~115V	280V	2.1A	500W
PR500 - 280	200~240V	280V	3.1A	750W

- PF universal input with power factor correction
- PR110/240VAC link selectable

Specifications

INPUT VOLTAGE:	PF Series: 85~265VAC (nominal) PF Series: 85~255VAC with PFC PR Series: 85~132/170~264VAC (Selectable)
FREQUENCY:	47~63Hz
OUTPUT VOLTAGE:	PR modules: 280VDC (230~370) PF modules: 360VDC (350~370)
OUTPUT POWER:	PF500A: 500W @ 100 ~ 265VAC, 750W @ 170 ~ 265VAC PF100A: 1000W @ 100 ~ 265VAC, 1500W @ 170 ~ 265VAC PR500: 500W @ 100 ~ 132VAC, 750W @ 170 ~ 265VAC
EFFICIENCY:	90% at 100VAC and 94% at 240VAC
POWER FACTOR:	0.95 at 100V/200VAC and full load, PF models only
INRUSH CURRENT:	Inrush current limiting circuit via internal resistor
PARALLEL OPERATION:	Via current balancing (PC terminal), PF models only
COOLING:	Conduction cooling by external heatsink and air flow
OPERATING TEMPERATURE:	Baseplate temperature -20°C to +85°C
ISOLATION:	Input - output: 3000VAC Input - baseplate: 2500VAC Output - baseplate: 500VAC
SAFETY:	Approved to UL1950, EN60950, CSA
OVP:	PF models only, inverter shutdown
OVERTEMP. PROTECTION:	PF models only, inverter shutdown limits current to a safe level
INVERTER GOOD:	PF models provide an inverter good signal at the IOG terminal
ENABLE OUTPUT:	PR models only, the ENA terminal provides the control to the DC-DC converters during start-up for proper start-up
DC OUTPUT GOOD:	PR models only, a low voltage sense is provided to monitor the DC output voltage
AC POWER FAIL:	PR models only, ACF terminal monitors AC failure
AUXILIARY SUPPLY:	PF models: an auxiliary bias supply 12 - 18V @ 10mA which can be used to power interface circuits/optocouplers
EXTERNAL COMPONENTS: (Required)	Hold-up capacitors, in-rush current limiting, input fuse, EMI filter and heatsink
DIMENSIONS:	PF500A: 86 x 83 x 12.7mm PF1000A: 146 x 86 x 12.7mm PR500: 86 x 83 x 12.7mm

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