

- **300W with forced air convection**
- **400W peak power capability**
- **200W natural convection cooled at +50 ℃**
- **< 0.3 W standby power**
- **+12V fan output & remote sense**
- **Built-in thermal protection**
- **Class B EMI**
- **Open Frame, U-Channel or Enclosed Versions (with Fan) Available**

Input

Input Voltage:	90-264 VAC
Input Frequency:	47-63 Hz
Input Current (RMS):	3.6A Max. @ 100 VAC & Max. Load
Power Factor:	>0.93 @ full load (230 VAC)
Inrush Current (<2ms):	70A @ 230 VAC
Earth Leakage Current:	<100 uA @ 264VAC/60Hz

Output

Total Output:	300W max. See table for details.
Output Voltage:	See table.
Hold Up Time:	20ms minimum
Efficiency:	up to 93.5% Typ.
Minimum Load:	NONE

Protection

Overvoltage:	105-132%[1], Latching
Overtemperature:	115ºC @RT1, Latching
Overcurrent:	110-125%, Auto Recovery
Short Circuit:	Continuous, Auto-Recovery

Note 1: OVP Threshold varies by model.

Environmental & Operating

Operating Temperature:	-30ºC to +80ºC (with derating)
Storage Temperature:	-30ºC to +85ºC
Humidity:	Up to 90% RH, non-condensing
Operating Altitude	≦ 5000m
MTBF:	>189K hours per MIL-STD-217F at rated load and 25ºC ambient temperature

Compliance

Safety Approvals:	
USA/Canada:	UL/cUL60950-1 2nd Amdt.
Europe:	TUV EN60950-1 CB Report 2nd Amdt.
Isolation:	4000VAC input to output 2500VAC input to ground 1000VAC output to ground
EMC:	FCC Class B Radiated & Conducted EN55032 Class B Radiated & Conducted
Harmonic Currents:	IEC 61000-3-2: > 75W
Voltage Flicker:	IEC 61000-3-3
Electrostatic Discharge:	IEC 61000-4-2: 8kV air, 4kV contact IEC
Radiated Immunity:	61000-4-3: 10V/m, 80%AM
EFT/Burst:	IEC 61000-4-4: +/-2kV
Surge Immunity:	IEC 61000-4-5: 1kV diff, 2kV com
Conducted Immunity:	IEC 61000-4-6: 10Vms
Magnetic Field:	IEC 61000-4-8: 30A/m
Dips / Interruptions:	IEC 61000-4-11: 30% reduction for 500ms, 95% reduction for 10 ms.

General

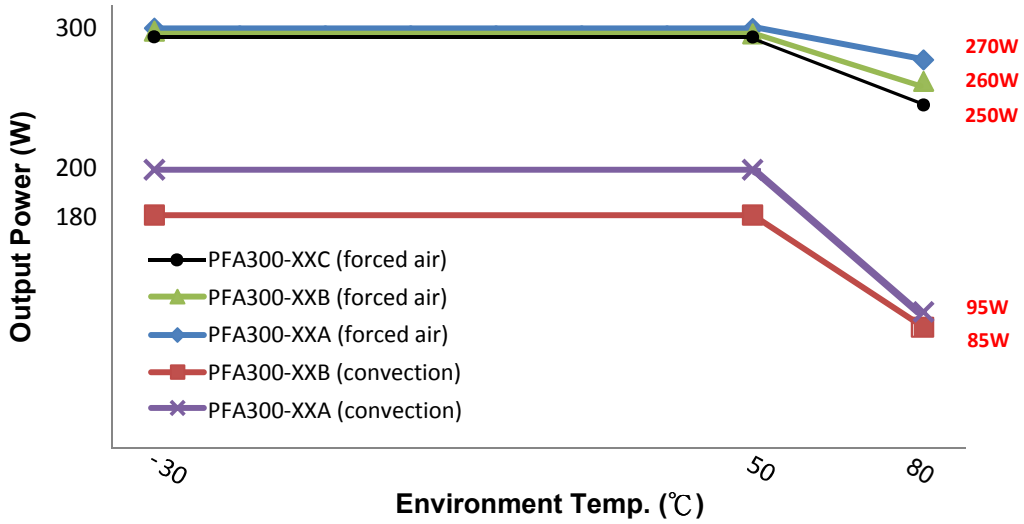
Dimensions:	(76mm) 3.0” W x (127mm) 5.0” L x (34.5mm) 1.36” H
Weight:	350 g

Models and Ratings

Model[1]	Output Voltage	Max Load Convection	Max Load 18CFM Forced Air	Output Regulation	Ripple & Noise	Efficiency	Fan Output
PFA300-12A	12V	16.67A	25.0A	+/-5%	120mV	91%	12V/0.3A
PFA300-13-1A	18V	11.1A	16.6A	+/-5%	110mV	91%	12V/0.3A
PFA300-14A	24V	8.33A	12.5A	+/-5%	100mV	91.5%	12V/0.3A
PFA300-16A	30V	6.66A	10.0A	+/-5%	100mV	91.5%	12V/0.3A
PFA300-17A	36V	5.55A	8.33A	+/-5%	120mV	91.5%	12V/0.3A
PFA300-18A	48V	4.16A	6.25A	+/-5%	130mV	92%	12V/0.3A
PFA300-19A	54V	3.7A	5.55A	+/-5%	130mV	93.5%	12V/0.3A

Note:
1. All models are available in U-channel (e.g. PFA300-12B) and an enclosed version (with fan) (e.g. PFA300-12C)
2. Listed values are with a nominal input of 230VAC.

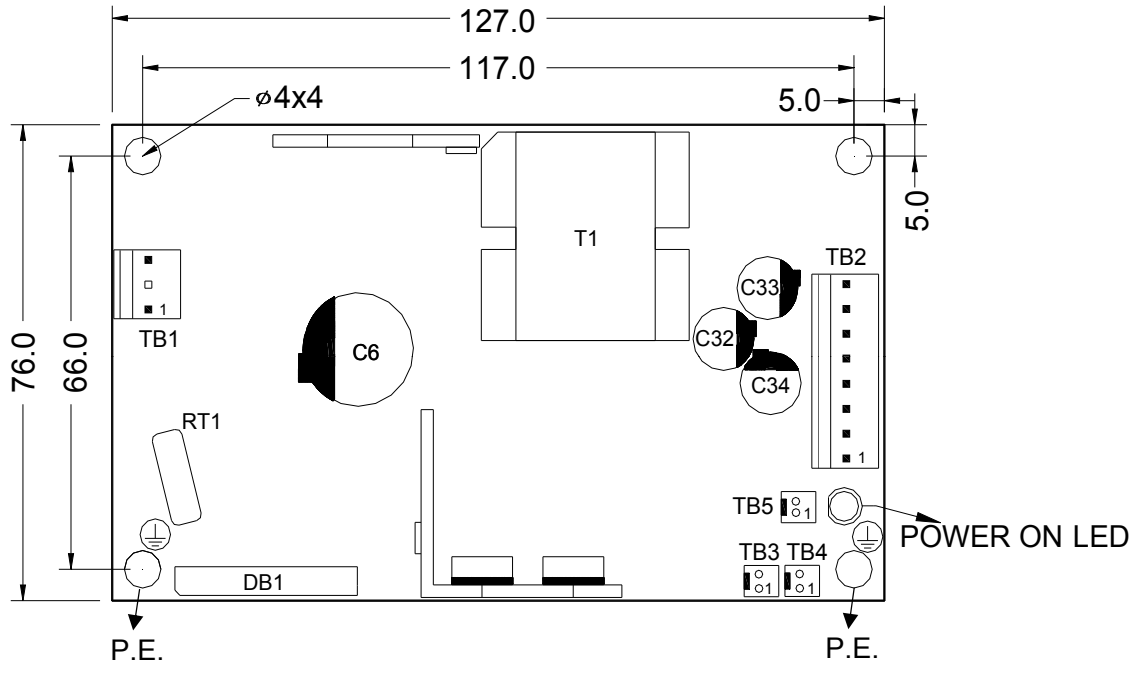
Derating Curve



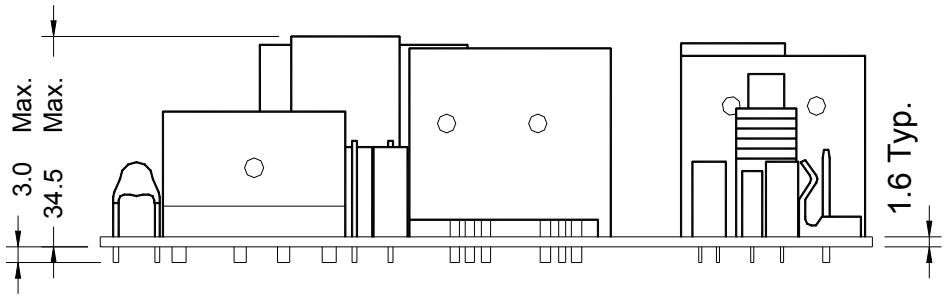
Derating Curves of PFA300 Series

Forced Air Temperature Measurements	
Component	Max. Temperature ℃
RT1	115℃
C6	100℃
T1	110℃
C32、C33、C34	100℃

Mechanical Outline



UNIT: mm TOLERANCE: ±0.3mm



Matching Connectors:

TB1 -- Input Connector	
PIN 1	Neutral
PIN 2	Line
Molex 5277-02A or equivalent, mates with Molex 5239-03 or equivalent	

TB2 -- Output Connector	
PIN 1- 4	+V0
PIN 5 - 8	GND
2 Types: 12v/18v: Terminal Block 24v -54v: Molex 5273-08 or 5239-08 or equivalent.	

TB3 -- FAN output	
PIN 1	+12V
PIN 2	GND
TB4 --Power Fail Signal	
PIN 1	Signal +
PIN 2	Signal -
TB5 -- Remote Sense	
PIN 1	Sense +
PIN 2	Sense -
Molex 5046-02A or equivalent, mates with Molex 5051-02 or equivalent	

Mechanical Outline

