



Industrial



Test



Comm



Broadcast



LED



Cots

## 300 to 1008W AC-DC Power Module



Features	Benefits
• Low Profile	• Assists System Integration
• High Efficiency	• Easier to Cool
• Power Factor Corrected	• Supports Global Use
• Operation up to 100°C Baseplate	• Suitable for Conduction Cooling

Specification		PFE300SA PFE500SA	PFE700SA (semi-regulated)	PFE500F	PFE1000FA
AC Input	VAC	85 to 265VAC, 47-63Hz (up to 440Hz) (4)			
Input Current (100-200VAC)	A	3.8 / 1.8	8.0 / 4.0	6.8 / 3.4	12.4 / 6.0
Model dependant		6.0 / 2.9			
Inrush Current (100-200VAC) (1)	A	20 / 40 peak			
Power Factor	-	0.95 minimum, meets EN61000-3-2			
Output Voltage Setpoint Accuracy	-	±2%	±1V	±2%	±2%
Ripple and Noise (1)	-	1%	4V	1%	1%
Over Current Protection	%	105 - 140% (Automatic Recovery)			105 - 140% Manual reset
Over Voltage Protection	-	125 - 145%	60 - 69.6V	125 - 145%	125 - 145%
Series Operation	-	Yes			
Parallel Operation	-	No	Yes (Droop mode)	Yes (Single wire)	Yes (Single wire)
Power On Signal (ENA)	-	Open collector (10mA sink current). Low (on) when output is present			
Auxiliary Supply	-	None	None	10 - 14V, 20mA	10 - 14V, 20mA
Remote On/Off (Opto isolated)	-	None	None	High = On	High = On
Overtemperature Protection	-	Yes			
Operating Baseplate Temp.	°C	-40°C to +100°C (2)			
Storage Temperature	°C	-40°C to +100°C			
Humidity (non condensing)	-	Operating: 20 - 95%RH, Non Operating: 10 - 95%RH			
Cooling	-	Conduction			
Withstand Voltage (1 min) (3)	-	Input to Output 3kVAC, Input to Baseplate 2.5kVAC, Output to Baseplate 1.5kVDC			
Isolation Resistance	-	Output to baseplate: 100M Ohm at 500VDC, 25°C ambient, 70%RH			
Vibration (non operating)	-	10-55Hz (1 min sweep), constant amplitude 0.825mm (max 49m/s <sup>2</sup> ), X, Y, Z 1 hour each			
Shock	-	196.1m/s <sup>2</sup>			
Safety Certifications	-	UL60950-1, CSA60950-1 (cUL), EN60950-1, CE mark (LVD)			
Weight	g	200	200	300	420
Size (WxHxL)	mm	61 x 12.7 x 116.8		70 x 12.7 x 122	100 x 13.4 x 160
Warranty	yrs	5			

**Notes: (Consult Installation Manual for detailed specifications, test methods and application notes)**

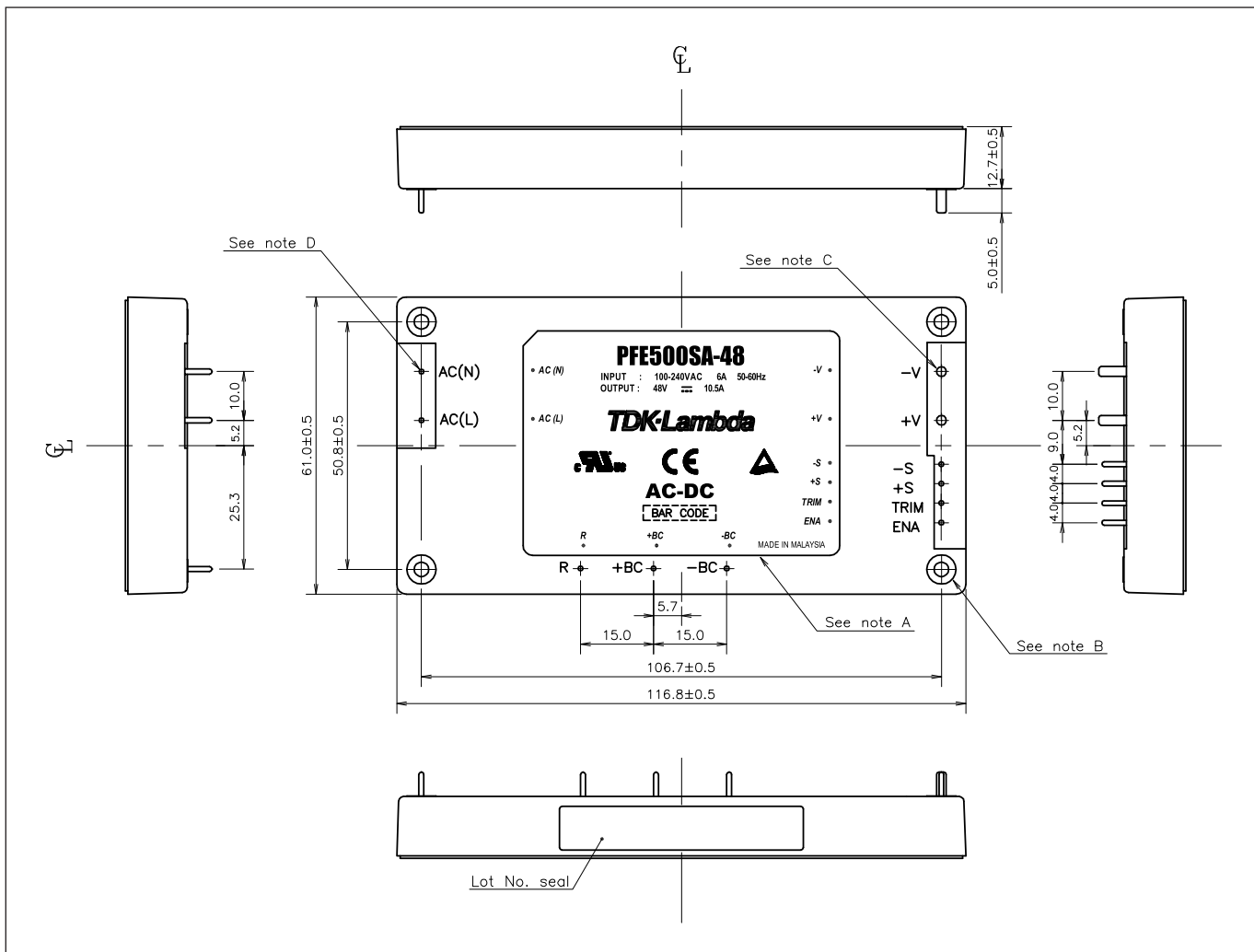
- External components are required, consult Application Notes
- PFE500SA-12, PFE500F-12: -40 to 85°C. See instruction manuals for derating curves  
PFE1000FA28 & PFE1000FA48: -40 to 85°C below 170VAC input voltage. See instruction manuals for derating curves
- PFE500F, PFE1000FA: 500VDC Output to baseplate
- Reduced PFC above 63Hz. Contact technical support for 440Hz operation.

**Model Selector**

Model	Output Voltage (V)	Adjust. Range (V)	Maximum Current (A)	Maximum Load Wattage(W)	Reg(mV)	Line Reg. (mV)	Efficiency typ (4)
PFE300SA-12	12	9.6 - 14.4	25	300	48	48	84 / 85
PFE500SA-12	12	9.6 - 14.4	33	396	48	48	84 / 86
PFE500F-12	12	9.6 - 14.4	42	504	48	48	81 / 83
PFE1000FA-12	12	9.6 - 14.4	60	720	48	48	84 / 86
PFE300SA-28	28	22.4 - 33.6	10.8	302	56	56	87 / 89
PFE500SA-28	28	22.4 - 33.6	18	504	56	56	87 / 89
PFE500F-28	28	22.4 - 33.6	18	504	56	56	84 / 86
PFE1000FA-28	28	22.4 - 33.6	36	1008	56	56	86 / 89
PFE300SA-48	48	38.4 - 57.6	6.3	302	96	96	88 / 90
PFE500SA-48	48	38.4 - 57.6	10.5	504	96	96	89 / 91
PFE500F-48	48	38.4 - 57.6	10.5	504	96	96	84 / 86
PFE1000FA-48	48	38.4 - 57.6	21	1008	96	96	87 / 90
PFE700SA-48	51	None	14	714	50 - 57V (5)		89 / 91

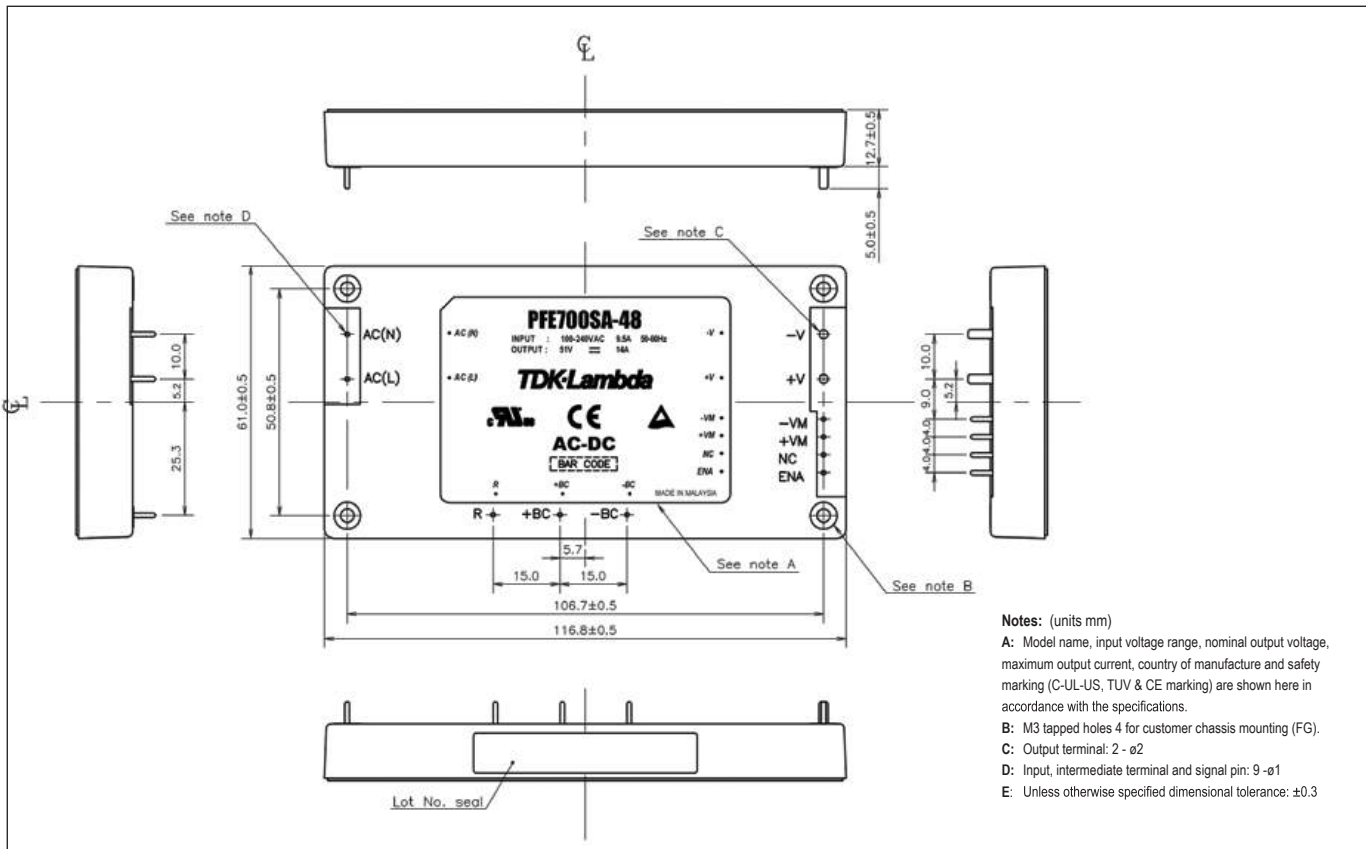
Notes: (4) 100 / 200VAC. (5) Total regulation range

**Outline Drawing PFE300SA & PFE500SA**



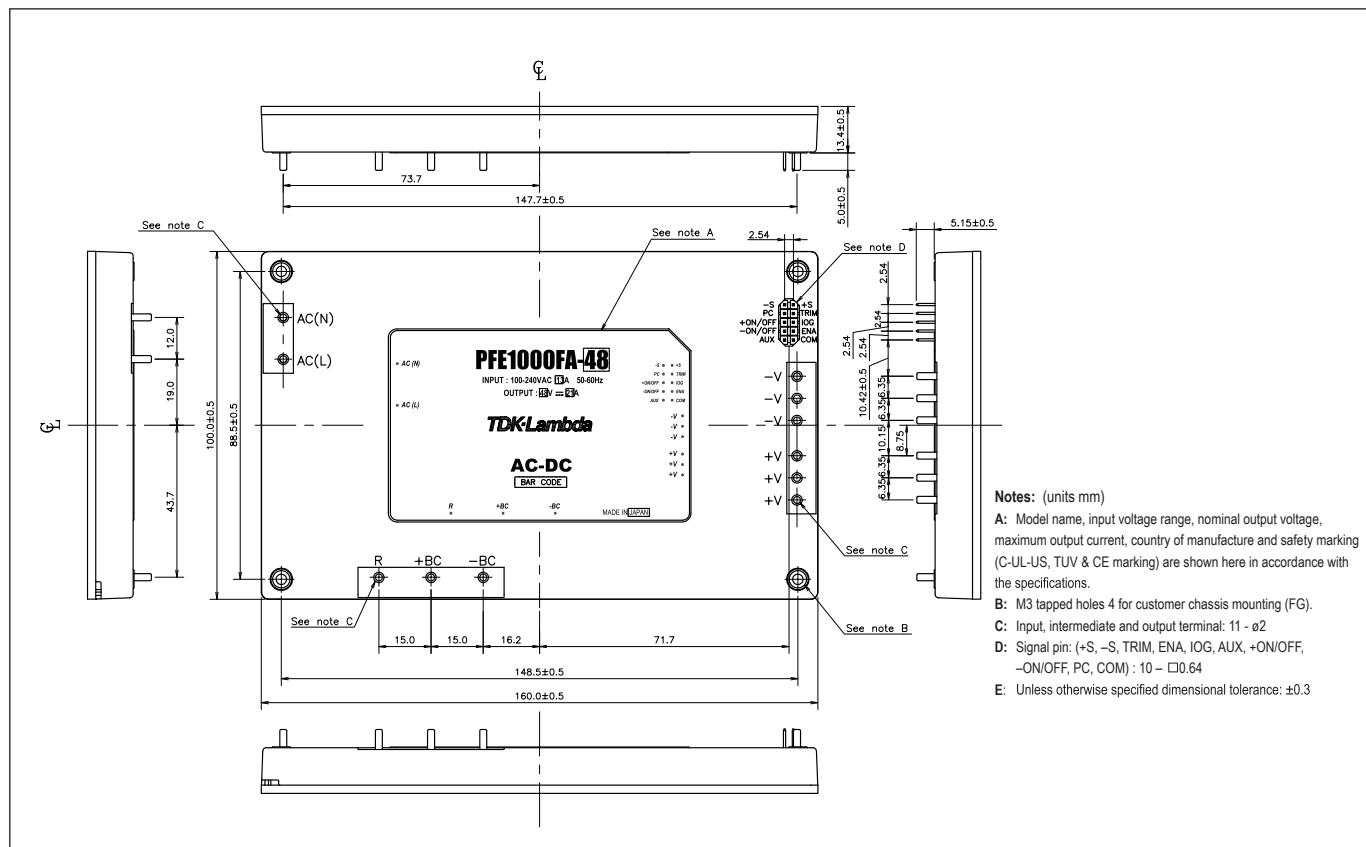


**Outline Drawing PFE700SA**



- Notes:** (units mm)
- A: Model name, input voltage range, nominal output voltage, maximum output current, country of manufacture and safety marking (C-UL-US, TUV & CE marking) are shown here in accordance with the specifications.
  - B: M3 tapped holes 4 for customer chassis mounting (FG).
  - C: Output terminal: 2 - ø2
  - D: Input, intermediate terminal and signal pin: 9 - ø1
  - E: Unless otherwise specified dimensional tolerance: ±0.3

**Outline Drawing PFE1000FA**



- Notes:** (units mm)
- A: Model name, input voltage range, nominal output voltage, maximum output current, country of manufacture and safety marking (C-UL-US, TUV & CE marking) are shown here in accordance with the specifications.
  - B: M3 tapped holes 4 for customer chassis mounting (FG).
  - C: Input, intermediate and output terminal: 11 - ø2
  - D: Signal pin: (+S, -S, TRIM, ENA, IOG, AUX, +ON/OFF, -ON/OFF, PC, COM) : 10 - □0.64
  - E: Unless otherwise specified dimensional tolerance: ±0.3