



- 1U High
- Up to 3000W (3 units) in 19" Rack
- Hotswap capable (Oring Diodes Built In)
- Low Cost
- PoE Option

FPS1000 Series

1000W Front End
Power Supplies

Key Market Segments & Applications

Power for Distributed Power Architecture
Factory Automation
RF Amplifiers

FPS Features and Benefits

Features	Benefits
<ul style="list-style-type: none"> • 1U High • Hotswap capable • High Efficiency • Full Array of Signals 	<ul style="list-style-type: none"> • Lower Cost of Ownership • Suitable for N+1 Redundancy • Less Heat Dissipated in System • Easier System Monitoring

Specifications		MODELS	12V Nominal	24V Nominal	32V Nominal	48V Nominal
ITEMS						
Output Voltage Range	(1)	V	10.5 - 13.2V	21.5 - 29V	28.8 - 38.4V	43 - 58V
Output Current		A	72A	40A	31A	21A
Line Regulation		-		<0.4%		
Load Regulation		-		<0.8%		
Output Noise		mV	150mV	200mV	250mV	300mV
Overvoltage Protection		V	14.3 to 15.7V	31 to 34V	41.5V to 45.5V	62 to 66V
Overcurrent Protection		-		105 - 125%, Constant Current type		
Load Sharing		-		Single wire current sharing, up to 8 units		
Remote Sense		-		Compensates for 1V on each output lead		
I ² C Monitoring		-		Optional (Specify /S)		
Signals (opto isolated)		-		DC OK, AC Fail, and Over temperature warning, high on fail		
Remote On/Off		-		On: 0 - 0.6V or short, Off: 2- 15V or open		
Auxiliary Output		-		11.2-12.5VDC 0.25A		
AC Input	(2)	-		85 - 265VAC, 47 - 63Hz ² (Derate 10% < 100VAC)		
Leakage Current		mA		<1.1mA at 230VAC input		
Inrush Current		A		<40A		
Hold up time (100VAC input)		-		20ms typical (at 80% rated load)		
Efficiency (typ) 100/200VAC		-	81 / 83%	84 / 86%	84 / 86%	85 / 88%
Power Factor Correction		-		EN61000-3-2 class A (20-100% load), >0.98 at full load		
Immunity		-		EN61000-4-2, -3, -4, -5, -6, -11		
EMC (conducted and radiated)		-		EN55022, level B, FCC Class B		
Operating Temperature		°C	0°C to +70°C, derate 2%/°C from 50°C to 60°C, 2.5%/°C from 60°C to 70°C			
Storage Temperature		°C	-30°C to +85°C			
Withstand Voltage		-	Input to Output 3kVAC, Input to Ground 2kVAC, Output to Ground 500VAC for 1 min.			
Cooling		-	Two internal fans, airflow from front to back (variable speed)			
Humidity		-	Operating: 10 - 90% RH, Storage: 10 - 95% RH (non condensing)			
Shock & Vibration		-	Built to meet ETS 300 019			
Safety Agency		-	UL60950-1, EN60950-1, CE Mark			
Input / Output Connector		-	Positronic PCIB24W9M400A1 (Mating #PCIB24W9F400A1)			
Front panel indicators		-	AC OK, DC OK, DC Fail			
Size (HxWxL)		mm	Stand alone: 41 x 127 x 290; Rack: 44 x 400 x 351			
Weight		g	2,000			
Warranty		yr	2			

Note 1 Via Trim pin on output connector

Note 2 47-440Hz with reduced PFC (100-265VAC)

Model Selector

Front AC Input Panel Configuration	Output Voltage	Output Current	Max Power	I ² C Interface
FPS100012/P	12V	72A	864W	No
FPS100012/PS	12V	72A	864W	Yes
FPS100024/P	24V	40A	960W	No
FPS100024/PS	24V	40A	960W	Yes
FPS100032/P	32V	31A	992W	No
FPS100032/PS	32V	31A	992W	Yes
FPS100048/P	48V	21A	1008W	No
FPS100048/PS	48V	21A	1008W	Yes
FPSS1U/P	Rack (3 slot), contains two blanking panels			
FPST1U/P	Rack with 3 individual outputs (floating)			

Rear AC Input Panel Configuration	Output Voltage	Output Current	Max Power	I ² C Interface
FPS100012	12V	72A	864W	No
FPS100012/S	12V	72A	864W	Yes
FPS100024	24V	40A	960W	No
FPS100024/S	24V	40A	960W	Yes
FPS100032	32V	31A	992W	No
FPS100032/S	32V	31A	992W	Yes
FPS100048	48V	21A	1008W	No
FPS100048/S	48V	21A	1008W	Yes
FPSS1U	Rack (3 slot), contains two blanking panels			
FPST1U	Rack with 3 individual outputs (floating)			

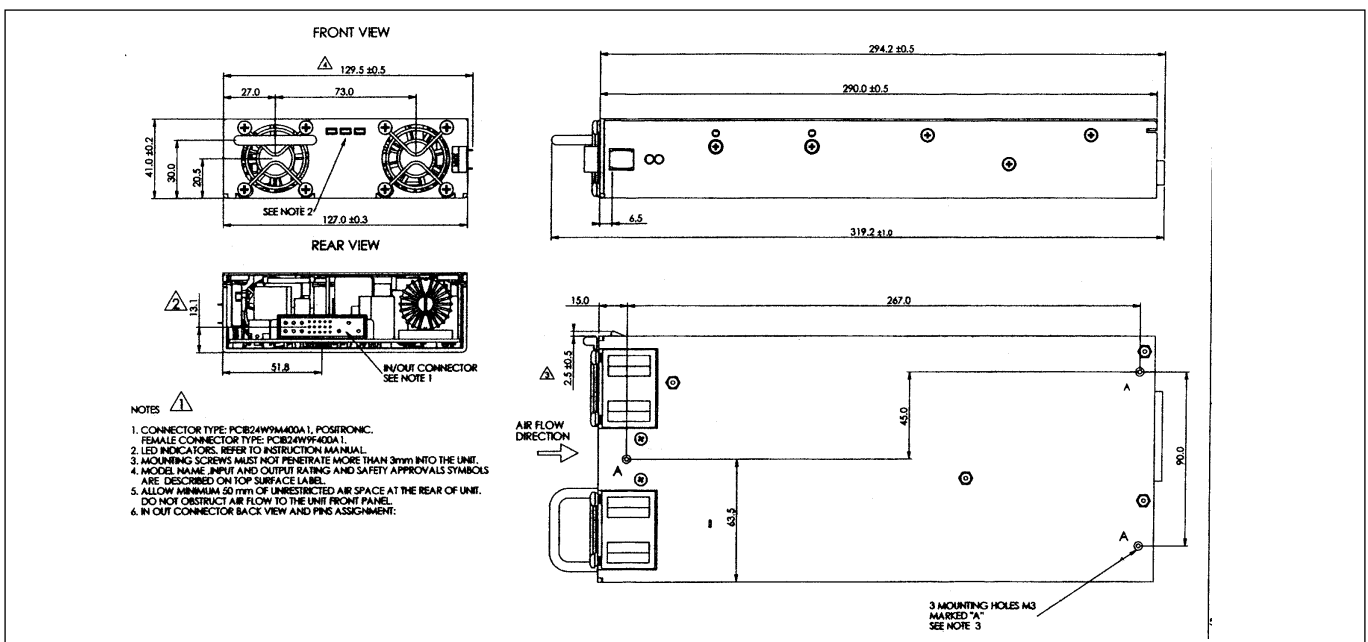
Options

Suffix	Description
/POE*	1500VAC Output to Ground Isolation (output noise 400mV)
*FPS100048 only	

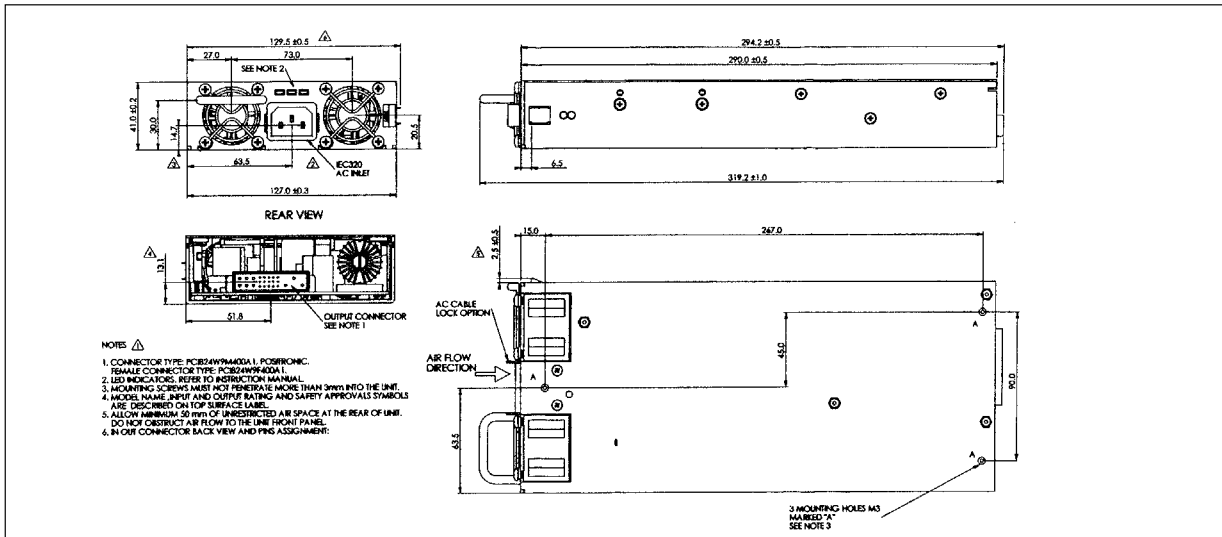
Full System (3 Modules & FPS s1U rack)

FPS3000 -	XX	/ X	= Standard
	12	BLANK	= I ² C
	24	S	= I ² C
	32	P	= FRONT AC INPUT
	48		

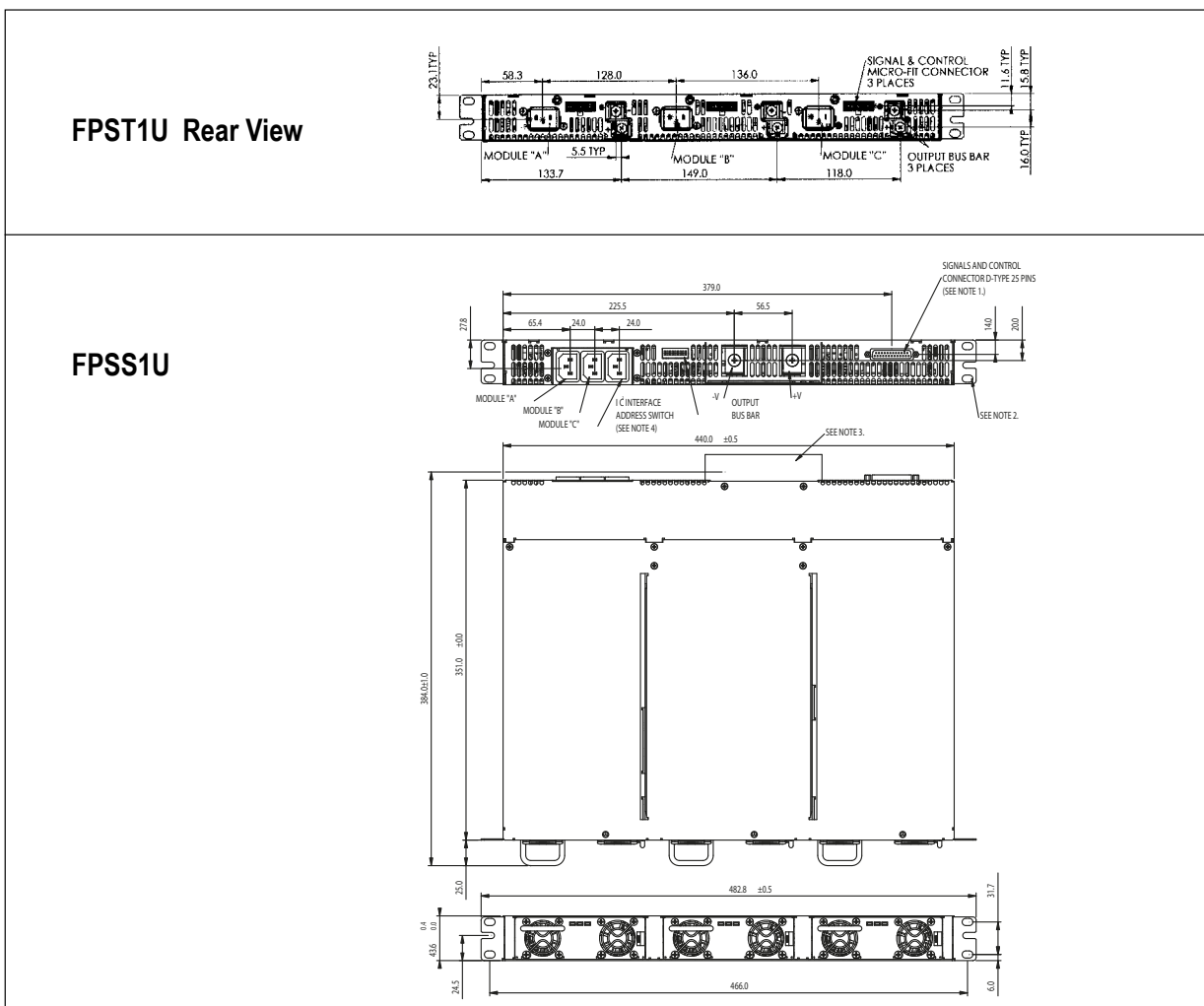
Outline Drawing FPS1000 Series



Outline Drawing FPS1000/P Series



Outline Drawing FPS Racks



Änderungen und Irrtümer vorbehalten. dataTec 10-12-2015 | Update TDK Lambda: FPS1000 Sept15 v5

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Mess- und Prüfgeräte



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