

Linear	Desktop
Enclosed or L Bracket	Open Frame
PCB Mount	Rack Mount Hot Swap

AC-DC Selector

Applications	# of Outputs	Output Power (W)																
		5	10	15	30	50	100	300	500	1000	1500	2500						
High Reliability Industrial (Five Year Warranty)	Single				NNS													
					HWS													
								JWS										
											LZSA							
	Dual				NND													
	Triple							JWT										
Industrial (Three Year Warranty)	Single & Multiple	HK-A (Single Output, 115VAC input)																
											NV							
					MTW													
											Vega							
														Alpha				
					LS													
Datacom Commercial (One - Two Year Warranty)	Single			KW, KPS, KM														
				ZWS, ZWSAF, ZWSPAF														
						DT												
						H												
						SC, SC120, ZP												
									SWS									
											PFE							
													FPS (1U)					
	Multiple														TH (1U)			
				KW, KM														
						LWD, LWT												
						H												
						DT												
						SC, ZP												
									ZWD, ZWQ									
Programmable	Single									ZUP								
DIN Rail Mount	Single	DSP, DPP, DLP-PU*																
										DLP								

* See website

1000W Front End Power Supplies

RoHS



- ◆ 1U high
- ◆ Up to 3000W (3 units) in 19" rack
- ◆ Hotswap capable (ORing diodes built in)
- ◆ Low Cost
- ◆ PoE Option

Key Market Segments & Applications

Power for Distributed Power Architecture
Factory Automation
RF Amplifiers

Features and Benefits

Feature

- ◆ 1U high
- ◆ Hotswap capable
- ◆ High efficiency
- ◆ Full array of signals

Benefit

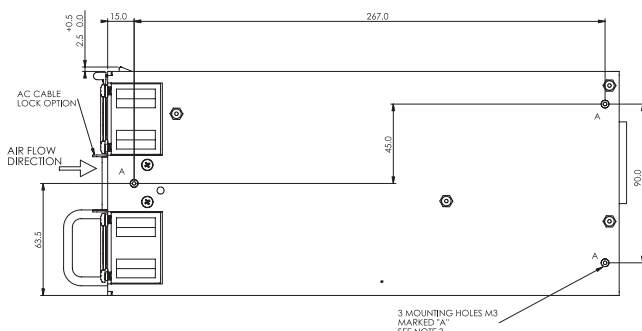
- ◆ Utilizes less cabinet space
- ◆ Suitable for N+1 redundancy
- ◆ Less heat dissipated in system
- ◆ Easier system monitoring

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 Overtemperature 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	-	85 - 265VAC, 47 - 63Hz ² , 120-360VDC. (Derate 10% < 100VAC)			
Leakage Current	mA	<1.1mA at 230VAC input			
Inrush Current	A	<40A			
Hold up time (100VAC input)	-	20ms typical (800W loading)			
Efficiency (typ) 100/200VAC	-	80 / 83%	83 / 86%	84 / 87%	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 to +70°C, derate 2%/°C from 50 to 60°C, 2.5%/°C from 60 to 70°C			
Storage Temperature	°C	-30 to +85°C			
Withstand Voltage	-	Input to Output 3kVAC, Input to Output 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	-	Meets 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 (LxWxH)	in	Stand alone: 1.61 x 5 x 11.4"; Rack: 1.72 x 19 x 13.8"			
Weight	g	2,000			
Warranty	yr	Two Years			

(1) Via Trim pin on output connector

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



Part No.	Description
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FPS/Z0008511	Module Mating Connector (Positronic PCIB24W9F400A1/AA-S1031)
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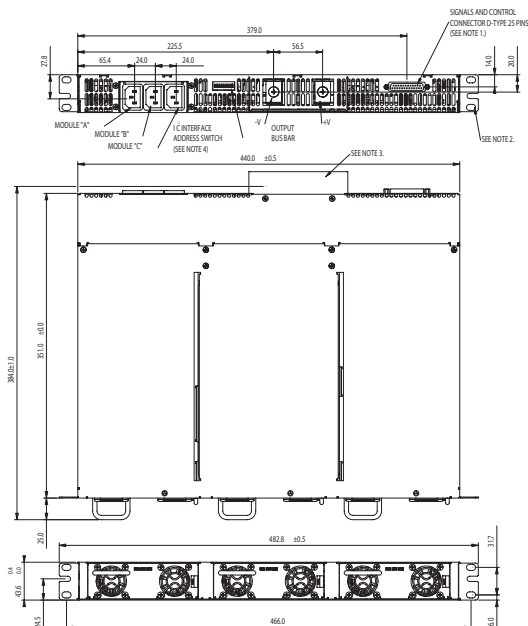
Suffix	Description
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/POE*	1500VAC Output to Ground Isolation (Output noise 400mV)
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* FPS100048 only.

Other Lambda Industrial Products

PX, CC-E, PAQ, PAH, PAF TH	DC-DC Converters 1U 750 to 2000W Front End AC-DC
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Model Selector

Front AC Input Configuration	Output Voltage	Output Current	Maximum 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
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FPST10/P	Rack (static), contains five blanking panels
FPST1U/P	Rack with 3 individual outputs (floating)

Rear AC Input Configuration	Output Voltage	Output Current	Maximum 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
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FPST1U	Rack with 3 individual outputs (floating)
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Full Systems (3 units + rack)

Front AC Input Configuration	Output Voltage	Output Current	Maximum Power	I ² C Interface
FPS300024/P	24V	120A	2880W	No
FPS300024/PS	24V	120A	2880W	Yes
FPS300048/P	48V	63A	3000W	No
FPS300048/PS	48V	63A	3000W	Yes

Front AC Input configuration. Remove /P suffix for Rear AC configuration.