

FEATURES

- **Incredibly small size:**
 - FP0 power supply: 90 x 60 x 30.4mm
 - FP power supply: 115 x 75 x 42mm
- **Maximum output current:**
 - FP0 power supply: 0.7A (24VDC)
 - FP power supply: 2.1A (24VDC)
- **Multiple voltage input:** 85 to 265VAC
- **Optimal protection:** overvoltage, overcurrent, overheating, etc.
- **Global approvals** (UL/cUL, EN, CE-marking)
- **DIN-rail mounting** (FP0 power supply also side mounting)

Performance specifications

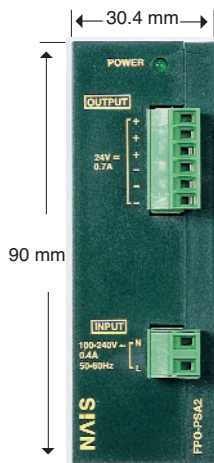
Order No:	FP0-PSA2	FP-PS24-050E
Primary side:		
Rated operating voltage	115 / 230VAC	
Operating voltage range	85 to 265VAC	
Rated operating frequency	50 / 60Hz	
Operating frequency range	40 to 70Hz	
Inrush current	< 50A at 55°C	< 50A at 25°C / < 70A at 55°C
Current consumption	145mA (at 230VAC and 0.7A output current)	400mA (at 230VAC and 2.1A output current)
Over voltage protection	PROTECTED	
Secondary side:		
Rated output voltage	24VDC	
Output voltage range	23.5V to 24.5VDC	
Nominal output current	0.7A	2.1A
Output current range	0 to 0.7A	0 to 2.1A
Output ripple	< 60mV _{pp}	< 240mV _{pp}
Short circuit protected	electronic, automatic restart mode	continuous
Over voltage protected	Yes	
Over load protected	Yes (switch off at approx. 0.8A and more)	Yes (switch off at approx. 3.5A and more)
Holding time	min. 20ms at 230VAC	min. 110ms at 230VAC
Power OK signal	-	Yes

General specifications

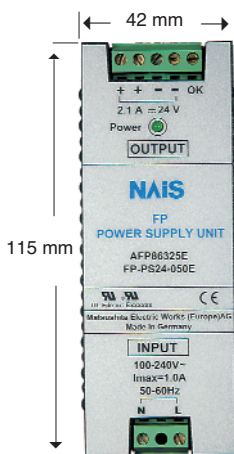
Ambient temperature	0°C to +55°C	
Storage temperature	-20°C to +70°C	
Ambient humidity	5 to 95% non-condensing	
Storage humidity	5 to 95% non-condensing	
Vibration resistance	10 to 55Hz, 1 cycle/min.: double amplitude of 0.75mm, 10 min. on 3 axes	
Shock resistance	10g min., 4 times on 3 axes	
Life time min.	7 years at nom. load, 25°C ambient temperature, 20000 h at 55°C with full load/continuous operation	
Mounting	DIN rail or FP0 flat attachment plate	DIN rail
Size	90 x 60 x 30.4mm	115 x 75 x 42mm
Input connection AC side	MC connector, 2 pin	2 pin
Output connection DC side	MC connector, 6 pin, 3 pin for „+“ and 3 pin for „-“	5 pin, 2 pin for „+“ and 2 pin for „-“; 1 pin Power OK
Status display	LED (green) at the front side for the secondary voltage indication	

Standards

EMC	EN 50082-2, EN50082-1, EN 50081-2, EN 50081-1	EN 55011/B, EN 55022/B, EN 61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-11
LVD	EN 60950, EN 50178 (overvoltage category 3)	EN 60950, EN 50178 (overvoltage category 2)
Others	UL Recognized according to UL 508, UL 1950, cUL Recognized according to CAN/CSA-C22.2 No. 950.95	
Protection	IP30	IP20 outside/IP67 inside



FP0 Power supply
FP0-PSA2



FP Power supply
FP-PS24-050 E

NOTE:

- 1) Mounting distance between the FP0 power supply and the FP0 CPU is needed to permit heat radiation for the FP0-CPU
- 2) For side mounting, 2 additional blue clips are needed: order part-no. 677-021-17101 (1pce.) for FP0-PSA2
- 3) Mounting distance between the power supply FP-PS24-050E and other devices is needed for cooling / heat radiation.

Matsushita Electric Works

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