

FIEPOS BASIC 1-PHASE

100-240 V AC/24-28 V DC, 300 and 500 W

FPS300.241-002-101

IP67 PS 100-240VAC/24VDC, 300W no fuse

- Decentralized Power Supply
- Efficiency >95%
- Output power 360/600W
- 600/1000 Wpeak 5s
- DC-OK relay, IP65/IP67



PRODUCT DESCRIPTION

The FPS300 is an industrial grade power supply for 1- phase networks incorporated in to a rugged wall-mount housing with IP65/67 protection. It provides one floating, stabilized SELV/PELV output, which is galvanically separated from the input.

In case of an overload or load failure, the output offers hiccup-mode. The most outstanding features of the FPS series are the compact size, the wide operational temperature range, the low input inrush current and the extremely high efficiencies, which are achieved by various technological design technologies.

TECHNICAL DATA

INPUT DATA

Input voltage ac	100-240 V
Input voltage ac min	85 V AC
Input voltage dc max	360 V DC
Input voltage dc	110-300 V
Input voltage ac max	264 V AC
Number of phases	1
Inrush current at 230 V ac typical	6 A
Inrush current at 120 V ac typical	3 A
Power factor at 120 V ac, full load. Typical	0,99
Power factor at 230 V ac, full load. Typical	0,97
Input voltage dc min	88 V DC

OUTPUT DATA

Output voltage min	24 V DC
Output current max	25 A
Output voltage	24 V DC
Output voltage max	28 V DC
Power	300 W
Output current	12,5 A

EFFICIENCY / LIFETIME / MTBF

Efficiency at 230 V ac, full load, typical	95,7 %
Efficiency at 230 V ac, typical	94,6 %
Efficiency at 120 V ac, full load, typical	94,3 %

DIMENSIONS

Weight	1,2 kg
Depth	59 mm
Width	182 mm
Height	183 mm

OTHER

IP class	IP65, IP67
Power consumption 120 V ac	3,2 A
Ripple max	50 mV pp
Temperature min without derating	-25 °C
Hold time at 120 V ac, typical full load	37 ms
Series	FIEPOS Basic
Hold time at 230 V ac, typical full load	37 ms
Power consumption 230 V ac	1,68 A
Supply frequency	50-60 Hz ±6 %
Approvals	CB, CE, UKCA, cULus
Temperature max without derating	55 °C
Material protection	Aluminium
Output connectors	1x HAN Q4/0
Total output power <+45°C	360 W
Total output power <+55°C	300 W
Total output power <+70°C	150 W

Total output power <5 s, <+55°C	600 W
Total output power <5 s, <+70°C	300 W
Power drop from +55 °C to +70 °C	10 W/°C
Active Transient	Yes
Back-feeding loads	35V / 4 J
DC relay output	Yes
DC-OK/IO-link connector	M12-A
Input connector	HAN Q4/2
IO-LINK	No

