

## FIEPOS BASIC 1-PHASE

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

FPS300.241-002-101

IP65/IP67 Power supply 100-240VAC/24VDC, 300W

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

#### OUTPUT DATA

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

## EFFICIENCY / LIFETIME / MTBF

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

## DIMENSIONS

<b>Width</b>	182 mm
<b>Height</b>	183 mm
<b>Depth</b>	59 mm
<b>Weight</b>	1,2 kg

## OTHER

<b>Approvals</b>	CB, CE, UKCA, cULus
<b>Hold time at 120 V ac, typical full load</b>	37 ms
<b>Hold time at 230 V ac, typical full load</b>	37 ms
<b>IP class</b>	IP65, IP67
<b>Material protection</b>	Aluminium
<b>Supply frequency</b>	50-60 Hz $\pm$ 6 %
<b>Ripple max</b>	50 mV pp
<b>Series</b>	FIEPOS Basic
<b>Power consumption 120 V ac</b>	3,2 A
<b>Power consumption 230 V ac</b>	1,68 A
<b>Temperature min without derating</b>	-25 °C
<b>Temperature max without derating</b>	55 °C
<b>Back-feeding loads</b>	35V / 4 J
<b>Total output power &lt;+55°C</b>	300 W
<b>DC relay output</b>	Yes
<b>Total output power &lt;5 s, &lt;+55°C</b>	600 W

DC-OK/IO-link connector	M12-A
Input connector	HAN Q4/2
Total output power <5 s, <+70°C	300 W
Total output power <+45°C	360 W
Output connectors	1x HAN Q4/0
IO-LINK	No
Total output power <+70°C	150 W
Power drop from +55 °C to + 70 °C	10 W/°C
Active Transient	Yes

