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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

Output voltage	24 V DC
Output voltage min	24 V DC
Output voltage max	28 V DC
Output current	12.5 A
Output current max	25 A
Power	300 W

EFFICIENCY / LIFETIME / MTBF

Efficiency at 120 V ac, full load, typical	94.3 %
Efficiency at 230 V ac, typical	94.6 %
Efficiency at 230 V ac, full load, typical	95.7 %

DIMENSIONS

Width	182 mm
Height	183 mm
Depth	59 mm
Weight	1.2 kg

OTHER

Approvals	CB, CE, UKCA, cULus
Hold time at 120 V ac, typical full load	37 ms
Hold time at 230 V ac, typical full load	37 ms
IP class	IP65, IP67
Material protection	Aluminium
Supply frequency	50-60 Hz ±6 %
Ripple max	50 mV pp
Series	FIEPOS Basic
Power consumption 120 V ac	3.2 A
Power consumption 230 V ac	1.68 A
Temperature min without derating	-25 °C
Temperature max without derating	55 °C

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















