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

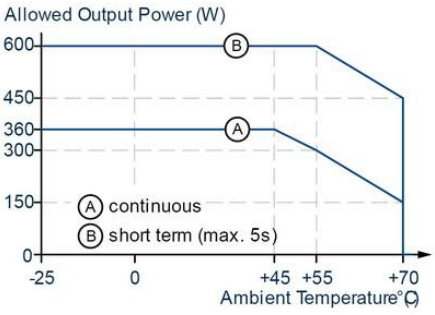
The FPS300 is an industrial grade power supply for 1- phase networks incorporated in to a rugged wall-mount housing with IP65/67 protection.
It provides one floating, stabilized SELV/PELV output, which is galvanically separated from the input.
In case of an overload or load failure, the output offers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

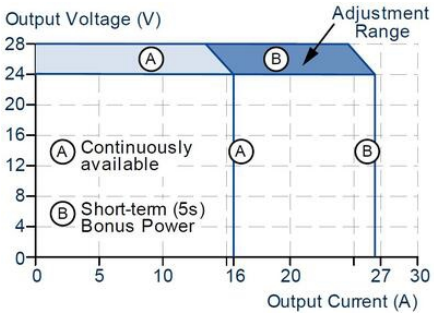
SPECIFICATIONS

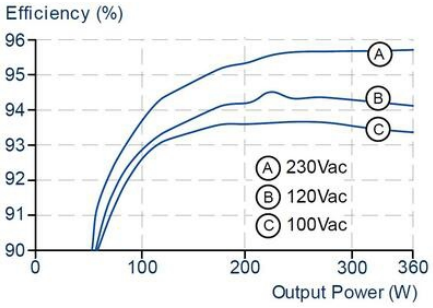
Active Transient	Yes
Approvals	CB, CE, UKCA, cULus
Back-feeding loads	35V / 4 J
DC relay output	Yes
DC-OK/IO-link connector	M12-A
Depth	59
Effect	300
Efficiency At 120 V AC, full load. Typical	94.3
Efficiency At 230 V AC, full load. Typical	95.7
Efficiency At 230 V AC. Typical	94.6
Height	183
Hold-up time at 120 V AC, full load. Typical.	37
Hold-up time at 230 V AC, full load. Typical.	37

Input connector	HAN Q4/2
Input voltage AC	100-240 V
Input voltage ac max	264
Input voltage ac min	85
Input voltage DC	110-300 V
Input voltage dc max	360
Input voltage dc min	88
Inrush current at 120 V ac typical	3
Inrush current at 230 V ac typical	6
IO-LINK	No
IP Class	IP65, IP67
Number of phases	1
Output connectors	1x HAN Q4/0
Output Current	12.5
Output current max	25
Output voltage	24
Output voltage max	28
Output voltage min	24
Power Consumption At 120 V AC	3.2
Power Consumption At 230 V AC	1.68
Power drop from +55 °C to + 70 °C	10
Power Factor at 120 V AC, full load. Typical	0.99
Power Factor at 230 V AC, full load. Typical	0.97
Ripple. max	50
Series	FIEPOS Basic
Supply Frequency	50-60 Hz ±6 %
Temperature Range Without Derating From	-25
Temperature Range Without Derating To	55
Total output power <+45°C	360
Total output power <+55°C	300
Total output power <+70°C	150
Total output power <5 s, <+55°C	600
Total output power <5 s, <+70°C	300
Weight	1.2

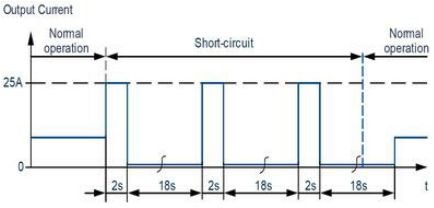
Width	182


Allowed Output Power (W)
600
450
360
300
150
0
B
A
A continuous
B short term (max. 5s)
-25
0
+45 +55
+70
Ambient Temperature°C

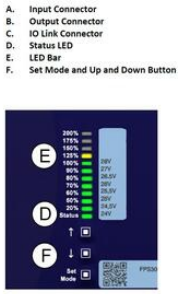

Output Voltage (V)
Adjustment Range
28
24
20
16
12
8
4
0
A
B
A Continuously available
B Short-term (5s) Bonus Power
0
5
10
16
20
27
30
Output Current (A)

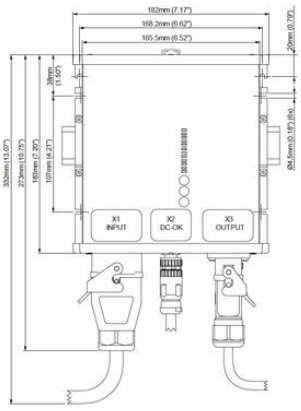

Efficiency (%)
96
95
94
93
92
91
90
A
B
C
A 230Vac
B 120Vac
C 100Vac
0
100
200
300
360
Output Power (W)

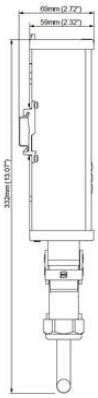

Power Losses (W)
25
20
15
10
5
A 100Vac
B 120Vac
C 230Vac
A
B
C
-40
60
160
260
360
Output Power (W)

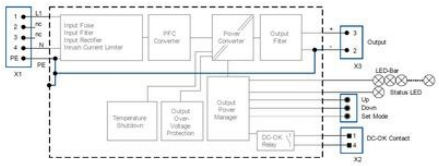

Output Current
Normal operation
Short-circuit
Normal operation
25A
0
2s
18s
2s
18s
2s
18s
t


PULS
E
D
F
A
C
B


A. Input Connector
B. Output Connector
C. IO Link Connector
D. Status LED
E. LED Bar
F. Set Mode and Up and Down Button
E
D
F
Set Mode


X1 INPUT
X2 DC-OK
X3 OUTPUT




Output
LED-Bar
Status LED
Up
Down
Set Mode
DC-OK Contact