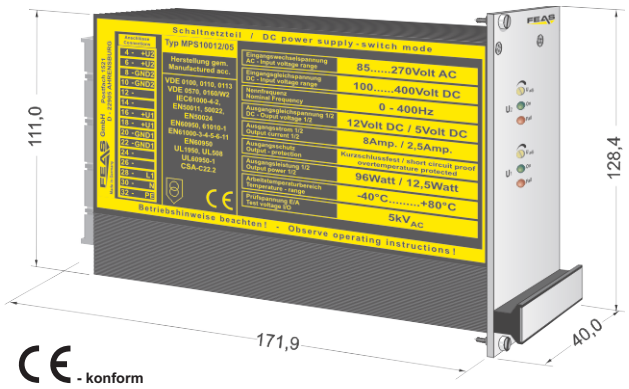
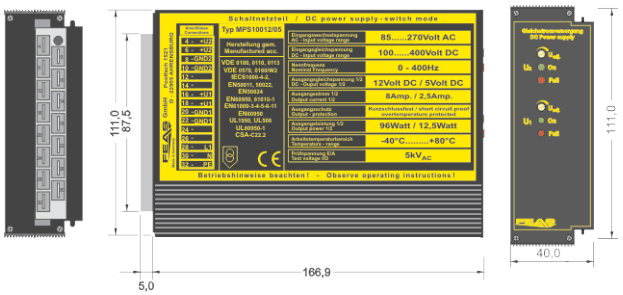
Data sheet

Switch mode power supply 19” : **MPS10012/05**

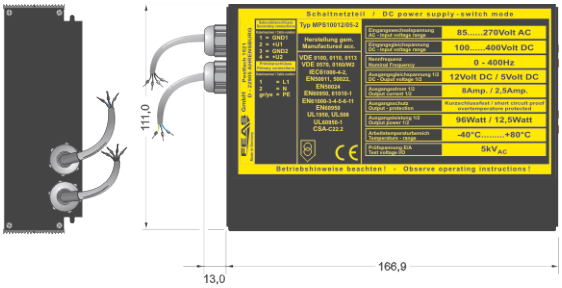
Teminal disposition MPS100



Teminal disposition MPS100-1

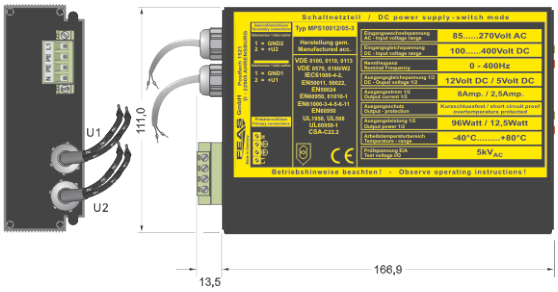


Teminal disposition MPS100-2



Normale Kabellänge = ca. 1,0m
Normal cable length = approx. 1,0m

Teminal disposition MPS100-3



Products of the series:

Type	MPS100 05/05	MPS100 12/05	MPS100 12/12	MPS100 24/05	MPS100 24/12	MPS100 48/12
Order number	583130	583128	583117	583125	583129	583115
Output voltage U_1/U_2	$5V_{DC}$ $5V_{DC}$	$12V_{DC}$ $5V_{DC}$	$12V_{DC}$ $12V_{DC}$	$24V_{DC}$ $5V_{DC}$	$24V_{DC}$ $12V_{DC}$	$48V_{DC}$ $12V_{DC}$
Output current I_1/I_2	15A 2.5A	8A 2.5A	8A 1A	5A 2.5A	5A 1A	2.5A 1A

Technical data

General data	
Type	MPS10012/05
FEAS Order number	583128
Product description	Switch mode power supply
Product function	DC power supply
Input data	
AC input voltage	85 - 270 V_{AC} (0 - 400Hz)
DC input voltage	100 - 400 V_{DC}
Input current at nominal load	at 115 V_{AC} max. 1.8 A / at 230 V_{AC} max. 0.9 A
Input current peak	< 8.0 A at 270 V_{AC}
Protective circuit	Transient voltage suppressor Varistor
Output data	
Output voltage $U1_{Nominal}$ / $U2_{Nominal}$	12 V_{DC} / 5 V_{DC}
Range of adjustment	10.0 ..... 15.5 V_{DC} / 3.2 .... 6.2 V_{DC}
Output current $I1_{Nominal}$ / $I2_{Nominal}$	8.0 A / 2.5 A
Current limiting	1.5 x $I_{Nominal}$
Fuse Mode (electronic fuse)	-
Power P1 / P2	96 / 12,5 Watt
Residual ripple (20MHz Bandwidth)	<50mV_{PP}
Control data	
Control deviation (Load)	<200mV with load variation 10 ..... 90%
Control deviation (Supply)	<10mV with load variation ±10%
Control time	<10ms with load variation 10 ..... 90%
Operating data	
Duty circle	100%
Efficiency	approx. 88%
Parallel connection	Yes
Operating temperature range	-40°C to +80°C
Storage temperature range	-40°C to +105°C
Derating	from 50°C
Cooling	selfcooling recommended respective distance 15mm each
Installation altitude	unlimited
MTBF	> 380.000h
Safety devices	
Fuse for input	at 115 V_{AC} 4.0 A / at 230 V_{AC} 2.0 A slow blow
Fuse for output	not necessary - short circuit proof
Overload protection	integrated into device
Hold-up time	20 ms typ.
Safety data	
Test voltage transformer	5kV_{AC} according to VDE0570
High voltage resistance	Input/Output 4,4kV_{AC} according to VDE0806/IEC380
Degree of EMI suppresion	according to VDE0871B, EN55022/B
Protection class	Protection class I with PE-Connection (EN60950)
Extra low safety potential	PELV (EN60204), SELV (EN60950)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient
Protective class enclosure	IP 65
Protective class terminals	IP20 (BGV A3)
Vibration proof	>30g at 33Hz in X, Y and Z acc. IEC68 and DIN41640
Status & Signal	
Status indicator	LED - Operating, LED - Operating fail
Signals	-
Interface	-
Applied construction regulations	
according to VDE	VDE0100, VDE0110, VDE0113, VDE0570, VDE0806
IEC	IEC60950-1, IEC61000-6-1,2,3,4, IEC60068-2-3, IEC60068-2-11-52, IEC60529
EN	EN60950-1, EN61140, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN55022, EN55011 EN61000-3-2, EN61000-3-3, EN60204 EN60529, EN61000-4-2,3,4,5,6,8,11, EN60068-1, EN6068-2, EN61558-2-17 EN61010-1
CSA/UL	CSA-C 22.2 / UL60950-1, UL508, UL1950
Mechanical data	
Mounting	19”-Rack 3RU 8HP
Dimensions (W x H x D)	40mm x 111/128.4mm x 171.9/179.9/180.4mm
Weight	approx. 1.25kg

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Stand: 20. März 2012