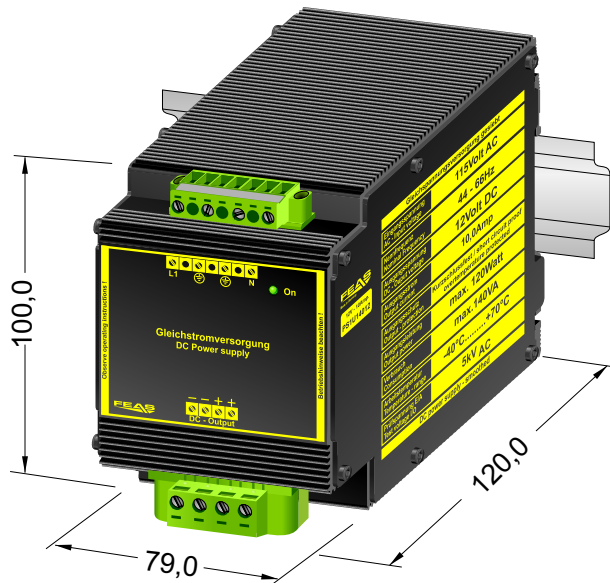


Data sheet

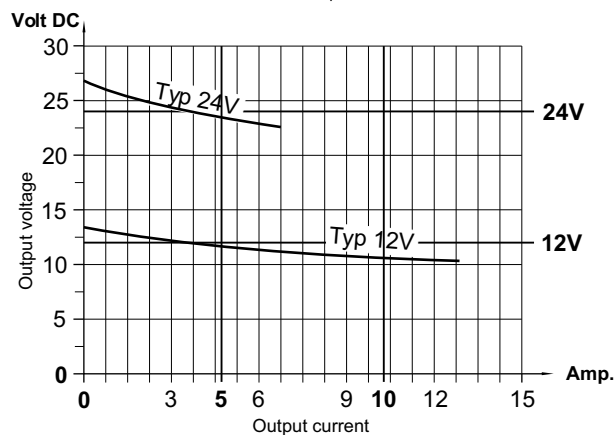
Power supply screened/smoothed: PS1U14012

Technical data



CE - konform

Load current diagram
at nominal input



Products of the series:		
Typ	PS1U14012	PS1U14024
Order number	582661	582662
Output voltage	12VDC	24VDC
Output current	10,0A	5,0A

General data

Typ	PS1U14012
FEAS Order number	582661
Product description	Power supply screened/smoothed
Product function	DC Power supply

Input data

AC input voltage	115V _{AC}
frequency	45 - 66Hz
Input voltage tolerance	-15% bis +15%
Input current at nominal load	max. 1,5A
Consumption	max. 140VA

Output data

Output voltage U _{nominal}	12V _{DC}
Range of adjustment	- - -
Output current I _{nominal}	10,0A
Current limitig	- - -
Power	120 Watt
Residual ripple (100Hz)	< 3%

Operation data

duty circle	100%
Efficiency	approx. 88%
Parallel connection	Yes
Operating temperature range	-40°C to +70°C
Storage temperature range	-40°C to +105°C
Temperature coefficient	< 500ppm / K
Derating	from 50°C
Cooling	selfcooling
	recommended respective distance 15mm each
Installation altitude	unlimited
MTBF	> 400.000h

Safety devices

Fuse for input	2,50A, delayed
Fuse for output	not necessary - cont. short-circuit proof
Overload protection	integrated into the device
Hold up time	20 ms typ.

Safety data

Test voltage transformer	5kV _{AC} acc. to VDE0551
High voltage resistance	Input/Output 4,4kV _{AC} accord. VDE0806/IEC380
Degree of EMI suppresion	< K acc. to VDE 0875 and VDE 0877
Protection class	Class 1 with PE-Connection (EN 60950)
Extra low safety potential	PELV (EN60204), SELV (EN 60950)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient
Protective class enclosure	IP 65
Protective class terminals	IP 20 (VGB4)
Vibration proof	>30g at 33Hz in X, Y and Z acc. to IEC 60068-2-27

Status & Signal

Status indicator	LED Operating
Signals	-

Applied construction regulations

according to VDE	VDE0100, VDE0110, VDE0113, VDE0551, VDE0160/W2, VDE0806
IEC	IEC380, IEC60950, IEC61000-6-1-2
EN	EN60950, EN50082-1, EN61000-6-1-2, EN 50178 EN50204, EN61558-2-17, EN20204, EN 60068 EN45501, En50021
CSA/UL	CSA-C 22.2 / UI60950, UI508, UL1950

Mechanical data

Mounting	on DIN rails or wall mounting with screws
Dimensions (W x H x D)	79mm x 100mm x 120mm
Weight	approx. 2,35kg

Notes / Comments