



AC Power Supply PSU1100-J1-AC-N0

- Certified for ATEX and IECEx Zone 1/21
- Galvanic isolation between input and output
- Provides an output power up to 80 W at 24 V DC
- Fully IP66 rated

AC Power Supply



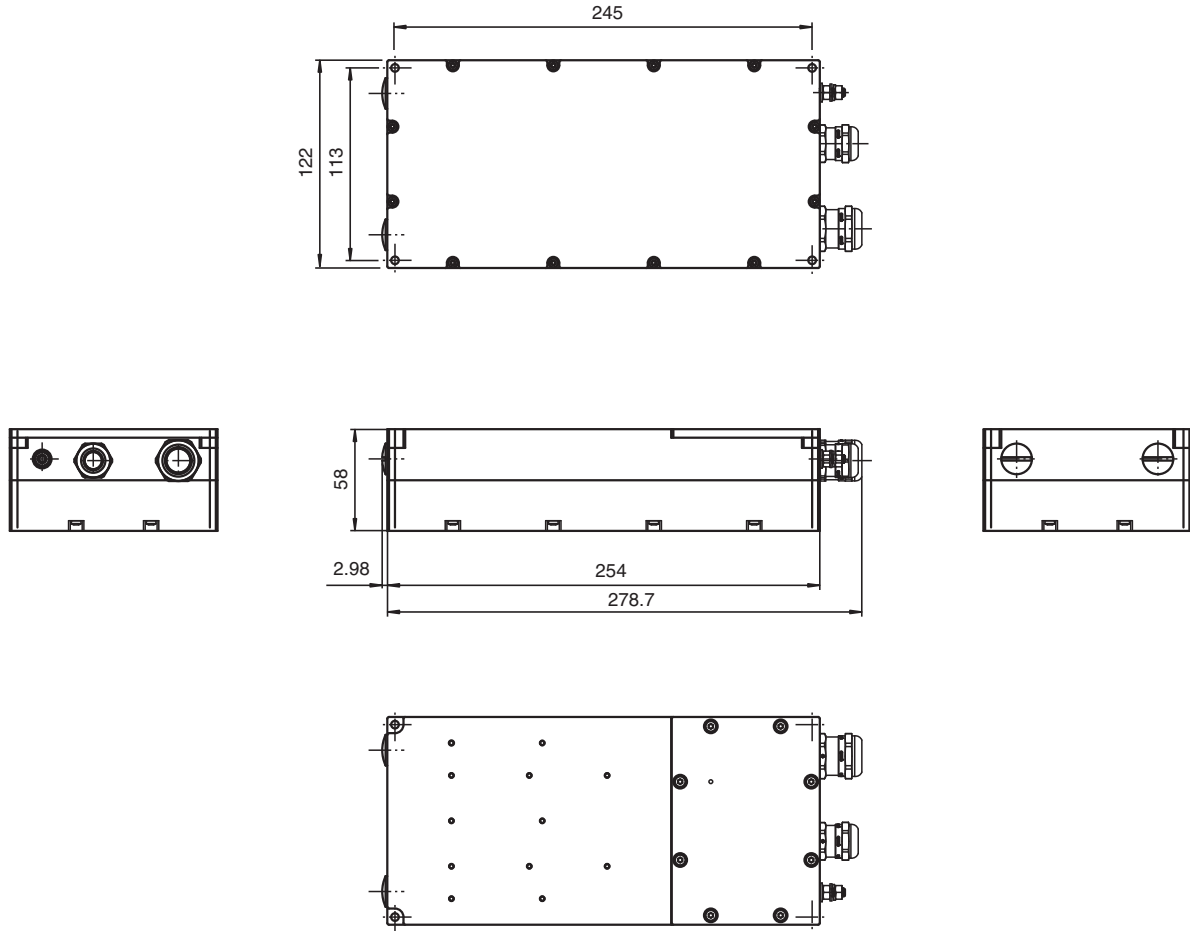
Function

The device is an apparatus certified for use in explosion-hazardous areas rated according to ATEX directive and IECEx Zones 1 and 21. The device is an AC-DC power supply and supplies explosion protected equipment in the explosion-hazardous area. The device provides an output voltage of 24 V DC based on 115/ 230 V AC input voltage. The output power has a derating from 50 °C to 65 °C (80 W to 50 W).

The device is optimized for use with the following devices:

- Display Unit DPU1100-J1-*
- Thin Client Unit TCU1100-J1-*
- PC Unit PCU1100-J1-*

Dimensions



Technical Data

Supply

Input voltage	115/230 V AC , 50/60 Hz
Input current	max. 1.5/0.7 A

Output

Output current	max. 3.3 A
Voltage	24 V DC (SELV)
Power	80 W with derating
Power dissipation	15 W at 80 W output power

Directive conformity

Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) ; EN 61000-6-4:2007+A1:2011
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09

Ambient conditions

Operating temperature	-20 ... 65 °C (-4 ... 149 °F) with derating
Storage temperature	-20 ... 65 °C (-4 ... 149 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN 60068-2-78
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27

Mechanical specifications

Core cross section	max. 2.5 mm ² (14 AWG)
Degree of protection	IP66
Material	

Technical Data

Housing	anodized aluminum
Mass	approx. 3.2 kg
Dimensions	245 mm x 122 mm x 58 mm
Data for application in connection with hazardous areas	
EU-type examination certificate	BVS 16 ATEX E 098 X
Marking	Ⓜ II 2G Ex eb q IIC T4 Gb Ⓜ II 2D Ex tb IIIC T85°C Db
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-31:2014
International approvals	
IECEx approval	IECEx BVS 16.0063X
Approved for	Ex eb q IIC T4 Gb Ex tb IIIC T85°C Db
Standards	IEC 60079-0:2011 , IEC 60079-5:2015 , IEC 60079-7:2015 , IEC 60079-31:2013