X67PS1300

Data sheet
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1 General information

1.1 Other applicable documents

For additional and supplementary information, see the following documents.

Other applicable documents

Document name	Title
MAX67	X67 System user's manual

1.2 Order data

Order number	Short description	Figure
	System supply modules	
X67PS1300	X67 system supply module 24 VDC, X2X Link power supply 15 W, reverse polarity protection, short-circuit proof, overload-proof, parallel connection possible, redundancy operation possible	

Table 1: X67PS1300 - Order data

Required accessories
For a general overview, see section "Accessories - General overview" in the X67 System user's manual.

1.3 Module description

This system supply module converts the 24 VDC I/O supply voltage into the electrically isolated X2X Link power supply. The module provides 15 W of output power for additional X67 modules on the bus.

2 Technical description

2.1 Technical data

Order number	X67PS1300
Short description	
System power supply modules	Galvanically isolated X2X Link power supply
General information	
Status indicators	Input voltage OK, output voltage OK
Connection type	
X2X Link power supply output	M12, B-coded
X2X Link power supply input	M8, 4-pin
Power consumption	
Internal	3 W
Certifications	
CE	Yes
UKCA	Yes
ATEX	Zone 2, II 3G Ex nA IIA T5 Gc IP67, Ta = 0 - Max. 60°C TÜV 05 ATEX 7201X
UL	cULus E115267 Industrial control equipment
HazLoc	cCSAus 244665 Process control equipment for hazardous locations Class I, Division 2, Groups ABCD, T5
KC	Yes
X2X Link power supply input	
Nominal voltage	24 VDC
Voltage range	18 to 30 VDC
Nominal current	0.75 A
Fuse	Integrated
X2X Link power supply output	
Nominal voltage	20 VDC
Nominal current	0.75 A
Nominal output power	15 W
Efficiency	>80%
Parallel connection	Yes [1)]
Redundant operation	Yes, with equal input voltages
Supply failure bridging	>5 ms at 24 VDC_{In} and I_{Out} = 0.75 A
Overload characteristics	Short-circuit proof, overload-proof
Insulation voltage between input and output	500 V_{eff}
I/O power supply	
Nominal voltage	24 VDC
Voltage range	18 to 30 VDC
Integrated protective function	Reverse polarity protection
Electrical properties	
Electrical isolation	X2X Link supply isolated from X2X Link power supply
Operating conditions	
Mounting orientation	
Any	Yes
Installation elevation above sea level	
0 to 2000 m	No limitation
>2000 m	Reduction of ambient temperature by 0.5°C per 100 m
Degree of protection per EN 60529	IP67
Ambient conditions	
Temperature	
Operation	-25 to 60°C
Derating	-
Storage	-40 to 85°C
Transport	-40 to 85°C
Mechanical properties	
Dimensions	
Width	53 mm
Height	85 mm
Depth	42 mm

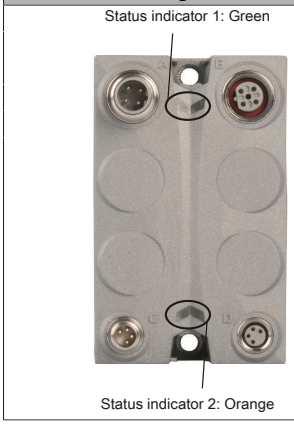
Table 2: X67PS1300 - Technical data

Order number	X67PS1300
Weight	225 g
Torque for connections	
M8	Max. 0.4 Nm
M12	Max. 0.6 Nm

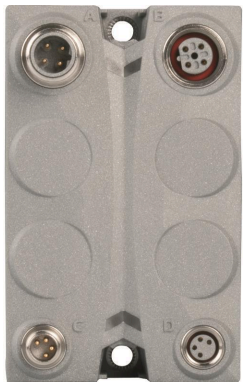
Table 2: X67PS1300 - Technical data

1) In parallel operation, it is only permitted to expect 90% of the nominal power. It is important to ensure that all power supply units operated in parallel are switched on and off simultaneously.

2.2 LED status indicators

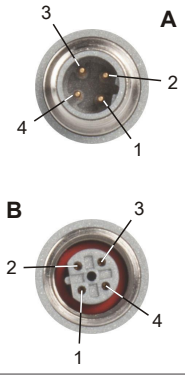
Figure	LED	Color	Status	Description
	**Status indicator 1:** Status indicator for X2X Link			
		Color	**Status**	**Description**
		Green	On	The X2X Link power supply is within the valid range.
	Status indicator 2: Status indicator for the I/O power supply			
		Color	**Status**	**Description**
		Orange	On	The I/O power supply is within the valid range.

2.3 Connection elements



2.3.1 X2X Link

The module is connected to the X2X Link network using pre-assembled cables. The connection is made using M12 circular connectors.

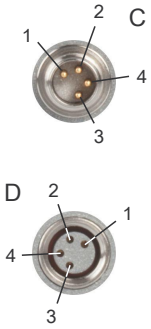
Connection	Pinout	
	**Pin**	**Name**
	1	X2X+
	2	X2X
	3	X2X⊥
	4	X2X\
	Shield connection made via threaded insert in the module. A → B-coded (male), input B → B-coded (female), output	

2.3.2 I/O power supply 24 VDC

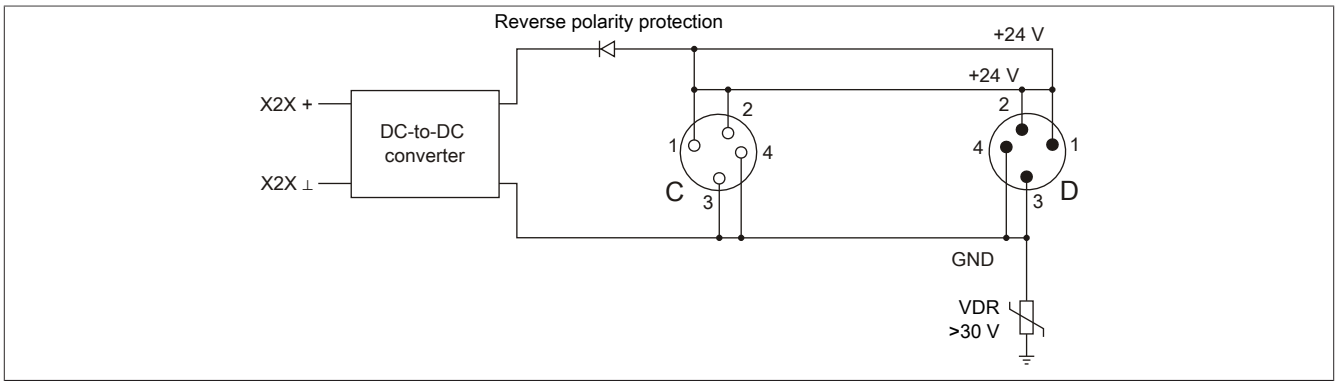
The I/O power supply is connected via M8 connectors C and D. The I/O power supply is connected via connector C (male). Connector D (female) is used to route the I/O power supply to other modules.

Information:

The maximum permissible current for the I/O power supply is 8 A (4 A per connection pin)!

Connection	Pinout	
	**Pin**	**Name**
	1	24 VDC
	2	24 VDC
	3	GND
	4	GND
	C → Connector (male) in module, supply for I/O power supply D → Connector (female) in module, routing of I/O power supply	

2.4 Input/Output circuit diagram



2.5 Handling in Automation Studio

Information:

This module does not have to be included in the project in Automation Studio.

3 Commissioning

3.1 Maximum number of connected modules

The following must be taken into account in the event of a larger number of connected modules:

- The total power consumption of all modules is not permitted to exceed 15 W.
- The internal resistance of the connection cables between individual modules must **additionally** be taken into account.

Example

20 X67DM1321 modules should be connected to the system supply module.

This is possible according to the data sheet: 20 * 0.75 W power consumption = 15 W total power consumption.

With longer connection cables between the modules, however, the sum of the cable resistances results in an additional voltage drop. This causes the supply voltage to drop below 18 V, which means that the functionality of the modules can no longer be ensured.

Solution: Add more system supply modules