② E F A PowerPlex® Gateway PP-M-CG300

Description

The *PowerPlex*® Gateway is a multiprotocol module to connect *PowerPlex*® systems with other networks. It allows the combination of a *PowerPlex*® CAN bus with various other bus systems: CAN (e.g. NMEA2000, SAE J1939), Modbus. Configuration of the devices is by means of software via the *PowerPlex*® CAN.

PowerPlex® is a modular, CAN bus based control system allowing the realisation of intelligent on-board electrical systems on boats and recreational vehicles. A **PowerPlex**® system connects and controls a wide range of tasks and electrical components in complex on-board electrical systems. All **PowerPlex**® control modules ensure reliable and efficient power supply of all functionally relevant components. The wide range of **PowerPlex**® products offers various possibilities to run processes automatically or to link them with conditions.

By means of the *PowerPlex*® configuration software, the application-specific logics for power distribution, power control and power monitoring will be defined, stored or adjusted. Communication is via the *PowerPlex*® CAN, following SAE J1939.

Typical applications

- Buses, mobile homes etc.
- Watercraft, e.g. leisure boats, workboats

Features

- Two high-speed CAN channels
- Galvanical isolation of the CAN interfaces
- Flexible gateway to other bus systems:
 CAN (e.g. NMEA2000, SAE J1939), Modbus
- Filtering of data traffic
- User-friendly configuration and parameter selection

Part number

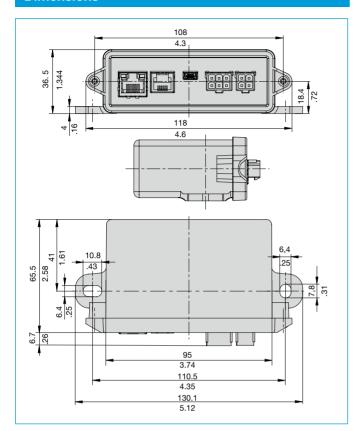
PP-M-CG300-000-0-Z-00



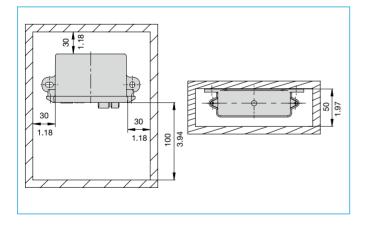
Technical data		
Rated voltage	DC 12 V/24 V	
Operating voltage	DC 9 32 V	
Current consumption	typically 72 mA at DC 12 V typically 44 mA at DC 24 V	
Degree of protection	IP22 when mounted vertically with terminals pointing downwards	
Operating temperature range	-40 +70 °C (-40 +158 °F)	
Storage temperature range	-40 +85 °C (-40 +185 °F)	
Humidity (IEC 60068-2-30, Db)	95 % RH, 144 hrs	
Vibration IEC 60068-2-6, Fc IEC 60068-2-64, Fh	10 Hz to 57 Hz: ± 0,38 mm 57 Hz to 200 Hz: acceleration 5 g 10 Hz to 2000 Hz: acceleration approx. 2 g _{RMS}	
Shock (IEC 60068-2-27, Ea)	25 g (11 ms)	
EMC	CE logo to EN 61000-6-2, EN 61000-6-4	
Mass	approx. 105 g	
Interfaces:		
CAN I	PowerPlex® CAN, 250 kbit/s	
CAN II	galvanically isolated	
	configurable to: 100 kbit/s, 125 kbit/s, 250 kbit/s, 500 kbit/s or 1 Mbit/s	
The CAN terminals at each end of the bus have to be terminated with a 120 Ω resistor.		
Modbus	RS485 connector	

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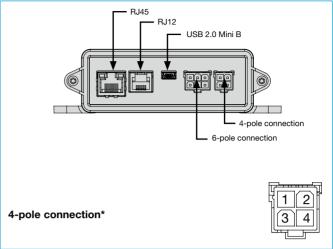
Dimensions



Mounting dimensions



Pin assignment:



interface	assignment	pin
voltage supply	U _{Batt} +	1
(DC 12 V/24 V, DC 9 32 V)	U _{Batt} -	2
RS485: Modbus	A _{RS485}	3
	B _{RS485}	4

6-pole connection*



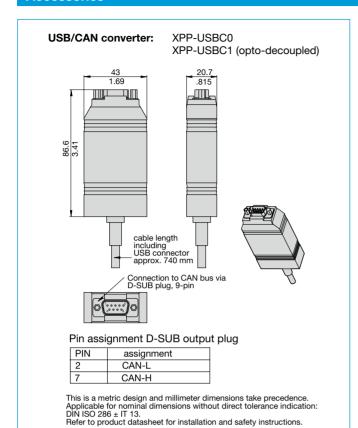
interface	assignment	pin
CAN II: galvanically isolated CAN	CAN-H	1
	CAN-L	2
	SHLD	3
CAN I: PowerPlex® CAN	CAN-H	4
	CAN-L	5
	SHLD	6

interfaces upon request	bushing	
Ethernet interface	RJ45	
LIN interface	RJ12	
USB 2.0 service interface	USB 2.0 Mini B	

*) Mating connectors are not included in delivery (see accessories)

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Accessories



PowerPlex® Configuration Software

Connection package:

(holding a 4-pole and 6-pole connector casing,

10 x crimp terminal 16 AWG (1.31 mm²)) XPP-CP-110

All dimensions without tolerances are for reference only. E-T-A reserves the right to change specifications at any time in the interest of improved design, performance and cost effectiveness, Dimensions are subject to change without notice. Please enquire for the letter dimensional drawing with tolerances if required. without notice is reserved. Amendments, errors and omissions excepted. Ordering codes of the products may differ from their marking.