

Description

The **PowerPlex®** Web Server provides display, monitoring and control of a **PowerPlex®** system via smartphone, tablet, multi-function display or computer. Up to eight devices can be integrated into a system either via WiFi (WLAN*) or via LAN. The same user interface is shown on all integrated devices and thus the entire functionality of the system is made available.

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

- Monitoring and controlling **PowerPlex®** via WLAN* or LAN
- Smart operation by means of smartphone, tablet or multi-function displays
- Customer-specific user interfaces
- Harmonised layout on all integral system devices
- User-friendly configuration and parameter selection
- No programming skills required

Part number

PP-M-WS300-000-0-Z-00

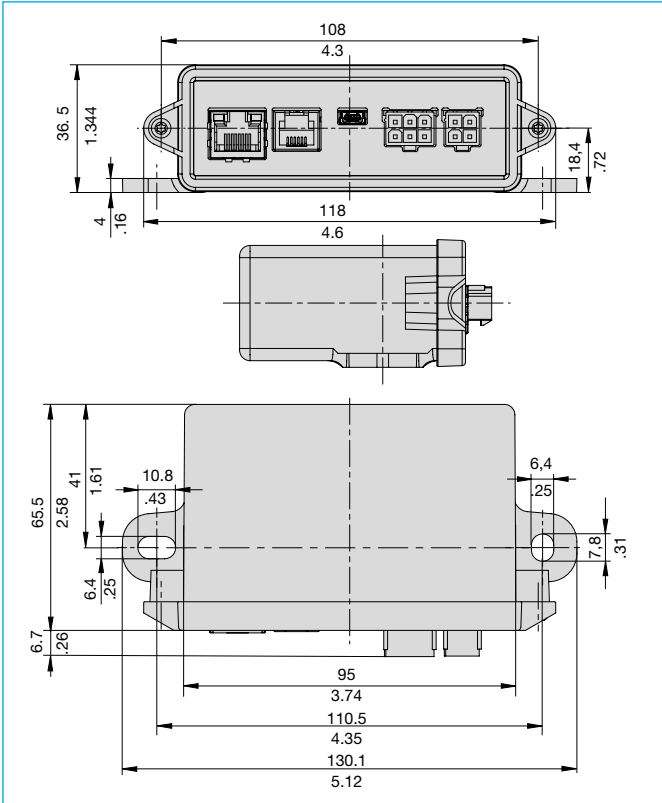


Technical data

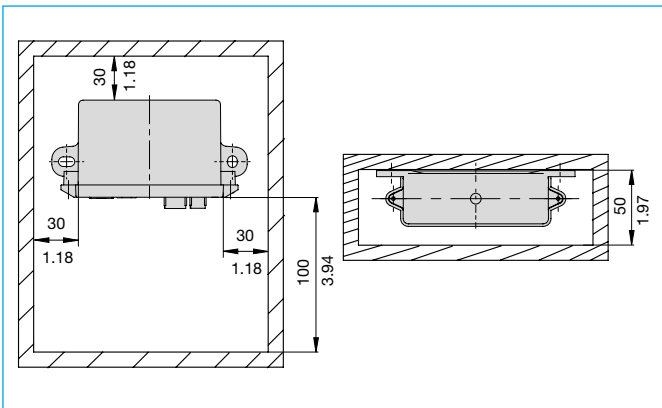
Rated voltage	DC 12 V/24 V
Operating voltage	DC 9 ... 32 V
Current consumption	typically 92 mA at DC 12 V typically 54 mA at DC 24 V
Degree of protection	IP22 when mounted vertically with terminals pointing downwards
Operating temperature range	-40 ... +70 °C (-40 ... +158 °F)
Storage temperature range	-40 ... +85 °C (-40 ... +185 °F)
Humidity (IEC 60068-2-30, Db)	95 % RH, 144 hrs
Vibration IEC 60068-2-6, Fc	10 Hz to 57 Hz: ± 0,38 mm 57 Hz to 200 Hz: acceleration 5 g
IEC 60068-2-64, Fh	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 to	PowerPlex® CAN, 250 kbit/s The CAN terminals at each end of the bus have to be terminated with a 120 Ω resistor.
USB	USB 2.0 service interface
Ethernet	Ethernet interface for connection of MFDs, PCs or routers

*) Note: separate router required, connection via Ethernet interface

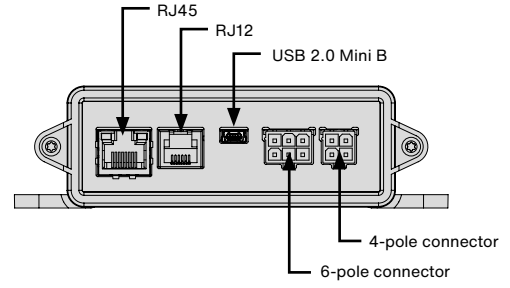
Dimensions



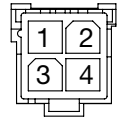
Mounting dimensions



Pin assignment:

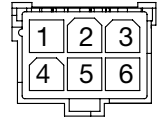


4-pole connection*



interface	assignment	pin
voltage supply (DC 12 V/24 V, DC 9 ... 32 V)	U _{Batt} +	1
	U _{Batt} -	2
not used	A _{RS485}	3
	B _{RS485}	4

6-pole connection*



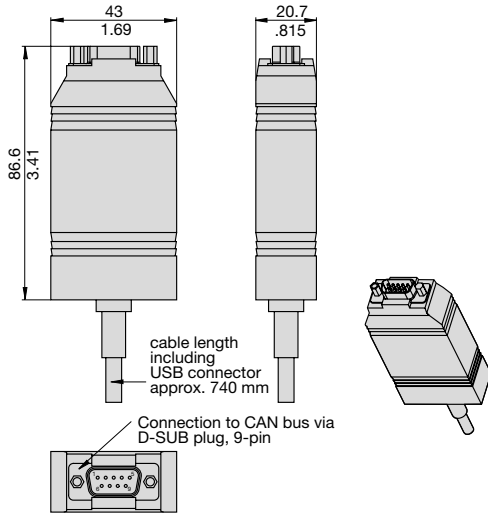
interface	assignment	pin
not used	CAN-H	1
	CAN-L	2
	SHLD	3
PowerPlex® CAN	CAN-H	4
	CAN-L	5
	SHLD	6

Other interfaces	bushing
Ethernet interface	RJ45
not used	RJ12
USB 2.0 service interface	USB 2.0 Mini B

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

Accessories

USB/CAN converter: XPP-USBC0
XPP-USBC1 (opto-decoupled)



Pin assignment D-SUB output plug

PIN	assignment
2	CAN-L
7	CAN-H

This is a metric design and millimeter dimensions take precedence. Applicable for nominal dimensions without direct tolerance indication: DIN ISO 286 ± IT 13. Refer to product datasheet for installation and safety instructions.

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 latest 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.