

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 (requires a separate router). 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

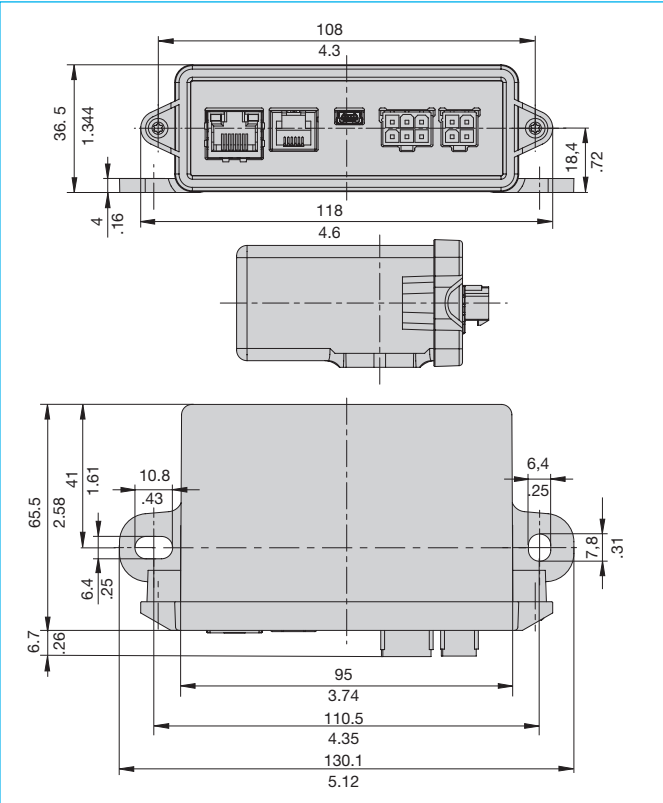
PP-M-WS300-000-0-Z-00



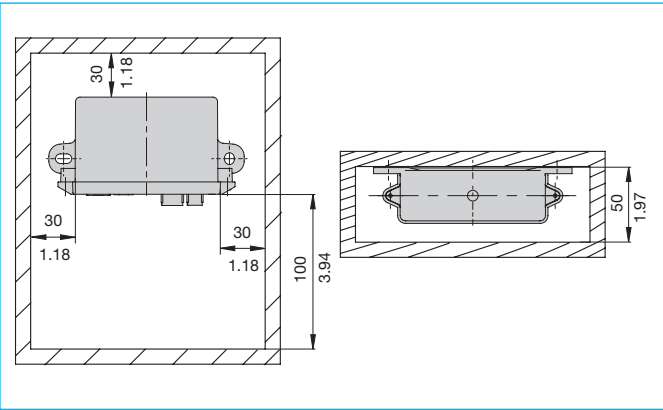
Technical data

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

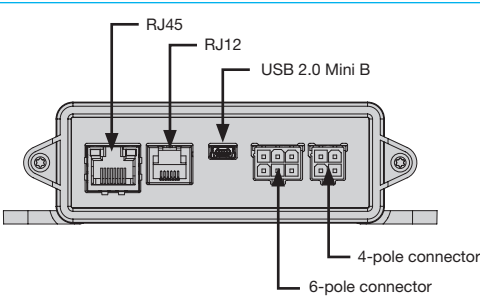
Dimensions



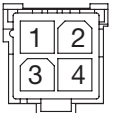
Mounting dimensions



Pin assignment:

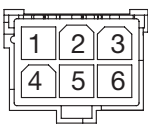


4-pole connection*



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*



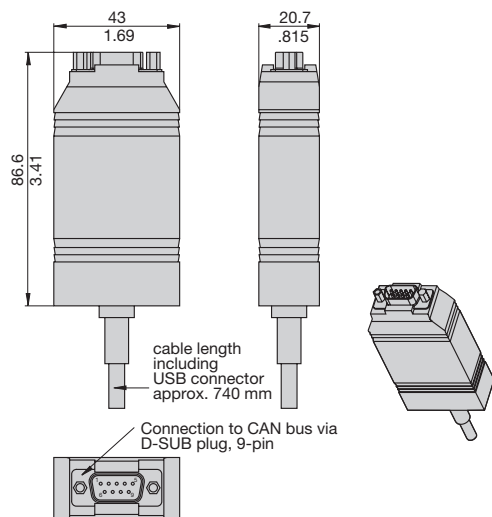
interface	assignment	pin
not used	CAN-H	1
	CAN-L	2
	SHLD	3
PowerPlex® CAN	CAN-H	4
	CAN-L	5
	SHLD	6

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