PowerPlus Energy PL001 Powerlink Device for Remote Battery Installation Guide

Contents

Powerlink

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Product Information

The PowerPlus Energy PowerLink module retrieves the battery performance data from LiFe and Eco PS Series batteries which have the Australian-made Digital Battery Management System (BMS).

The information provided by the PowerLink module is accessible on most computers, tablets and phones via web browser. Voltage, current and battery temperature data is currently available with Power and SOC and other values to be added as we expand the features.
The PowerPlus Energy batteries have been designed as a stand-alone self-managed solution, however, the PowerLink module also provides information via MODBUS with future releases including CANBUS and SNMP options.
The information provided by the PowerLink module will assist in providing optimum performance and longevity from your energy storage.

Powerlink Installation and Operation Manual

The PowerPlus Energy PowerLink module is designed to retrieve battery performance data from LiFe and Eco PS Series batteries that have the Australian-made Digital Battery Management System (BMS).
It provides voltage, current, and battery temperature data, with power and SOC values currently available, and other features to be added in future releases. The PowerLink module operates as a stand-alone self-managed solution, but also provides information via MODBUS, with future releases including CANBUS and SNMP options.
The module ensures optimum performance and longevity from your energy storage.

Specifications

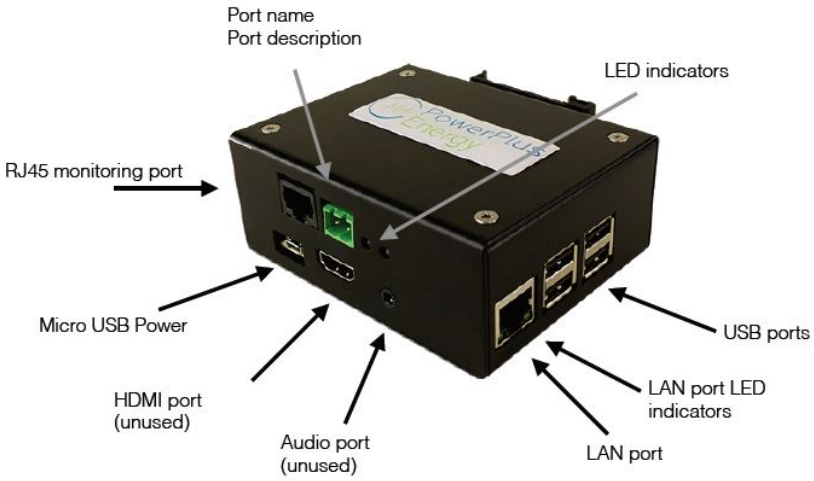
The PowerLink module has the following specifications:

- Battery Connection: RS485 – Battery comms signal bus x 2
- Communications: RJ45 Ethernet/ Modbus TCP-IP / Can communicate with up to 20 batteries
- I/O: USB-A x 4 – Future Use/ Diagnostics
- Power: 5V USB-Micro
- Power Connection: 110mm W x 110mm D x 40mm H
- Dimensions: 450G

Dimensions and Ports

The PowerLink module has the following ports and dimensions:

- RJ45 monitoring port
- LED indicators
- Micro USB Power
- HDMI port (unused)
- Audio port (unused)
- USB ports
- LAN port LED indicators
- LAN port
- Dimensions: 110mm W x 110mm D x 40mm H



Supplied with Powerlink

2m RJ45 cable

30cm RJ45 cable

5V power supply to micro USB

RJ45 termination plug

The PowerLink module comes with:

- 2m RJ45 cable
- 30cm RJ45 cable
- 5V power supply to micro USB
- RJ45 termination plug

Powerlink module Setup and monitoring procedure

Powerlink set up

1. Connect the micro USB cable from the 5V power adaptor to the Powerlink port.
2. Connect the 5V power adaptor to the main AC power outlet and switch it on. The red LED will be on now.
3. Connect the cable from the LAN modem (for the internet) to the LAN port. Note: This port is next to the 4 USB ports.
4. LAN port LED indicators on the bottom will be on now.

Web interface setup

1. Open WiFi network menu in mobile or computer (The interface layout might be different from the picture).
2. Select PPE-Powerlink-xxxx (xxxx will be digits).
3. Type the password 12345678
4. Open the web browser. Type the address 192.168.0.10:8822. It will open the home page as shown in the picture.

5. Press the configuration button, a screen like the picture will open.
6. Press reset data to remove any previous data from the files.
7. Enter the number of batteries to be scanned into the box and press submit.

Battery scanning procedure
Note: battery scanning order should be from top to bottom in the rack, with only one battery connected at at time.
Take the longest RJ45 cable and connect the cable black colour RJ45 port.
Note: please make sure, the cable is connected to the correct port in the Powerlink
Connect the other RJ45 cable end to the battery needing to be scanned.
Press Scan in the Battery management screen and after couple of seconds, you will see the battery (BMS) serial number as in the picture.
Repeat steps 9 and 10 in every other battery.
Confirm the number of serial numbers is same as the number of batteries in the battery rack.

Cabling

- Replace the long RJ45 cable with a suitable length RJ45 cable to connect into the top battery.
- Connect the other end to top battery in the rack.
- Connect another small RJ45 cable to the remaining port in the same battery.
- Connect the other end into the next battery (Daisy chain).
- Repeat the daisy chain connection till last battery.
- Connect the RJ45 termination connector in the remaining slot on the last battery. (19) After 1-2 minutes, go to MultiStat (available on the home page). (20)
- Verify that all the batteries are responding.
- If you are not able to see the battery status in the MultiStat window, press the Restart polling button in the configuration page and repeat step 19 & 20.

Request login details for the portal

The process is
Customers to email **Support@powerplus-energy.com.au** and request login and password details for PowerPlus Energy Portal **http://performance.powerplus-energy.com.au:3000/login**
The customer needs to supply all PowerLink Serial Numbers and Site Name
Support will create login and will email details to the customer once complete.

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info@powerplus-energy.com.au

Documents / Resources

	**PowerPlus Energy PL001 Powerlink Device for Remote Battery** [pdf] Installation Guide PL001 Powerlink Device for Remote Battery, PL001, Powerlink Device for Remote Battery, Device for Remote Battery, Remote Battery

References

- powerplus energy – Australian Made Energy Storage Solutions