

BUDDERFLY

ON DEMAND ENERGY MANAGEMENT

POWER STRIP



Specifications:

Power: 120V AC/ 60Hz
Maximum Loads: 15A
Surge Protection: 540 Joules
USB Voltage: 5V
USB Current: 2A Total
Operating Temperature: 10°C to +40°C
Certification: UL certification is in progress
For indoor use only

Specifications subject to change without notice due to continuing product improvement

Description:

Installing a Budderfly adapter transforms your building's existing wiring into the "Budderfly Open Network" and allows the adapter to monitor energy consumption and communicate the data to a facility controller.

Budderfly adaptors use the existing power line for communication and thus require no re-wiring.

Using our Budderfly software, you can visualize consumption data and manage each individual adapter.

The Budderfly Controllable Outlet is a component of Budderfly system and designed to work with all other Budderfly devices. It is a plug-and-play replacement for your existing Outlet and has a controllable outlet. Once installed, The Budderfly Controllable Outlets also act as repeater to extend the range of the network and increase efficiency.



Warning

RISK OF FIRE

RISK OF ELECTRICAL SHOCK

RISK OF BURNS

Exercise extreme caution when using Budderfly switching devices to control appliances.

To avoid the risk of Fire, Electrical Shock, Burns or other hazards we recommend the following:

- Use Budderfly Power Strip indoor only.
- Do Not Connect to ungrounded outlet.
- Never use the Budderfly Power Strip to control medical and/or life support equipment.
- Do Not use the Budderfly Power Strip where excessive moisture is present or near Water related Applications
- Do not use the Budderfly Power Strip to control electric heaters or any other appliances which may present a hazardous condition due to unattended or unintentional power on control.

Never use the Budderfly Power Strip with loads that exceed the maximum rating specified.

Installation:

- 1- Plug the Budderfly Power Strip into a grounded Outlet
- 2- Plug the required equipment into the Budderfly Power Strip
- 3- Press the Power Switch to turn on the Budderfly Power Strip

Features:

- Manual On/Off Switch
- Surge Protection
- Resettable Breaker
- 3 Controllable Power Outlets
- 3 Non-Controllable Power Outlets
- 2 Protected Controllable USB Outlets
- 2 Protected Non-Controllable USB Outlets
- Ability to create a group of devices
- Ability to monitor power consumption
- LED indicators

On/Off Control:

- Remote Control:
 - o The Controllable Power and USB Outlets in the Budderfly Power Strip can be turned On/Off remotely thru the Budderfly Software
 - o The Budderfly software will inform you that the action was successful. In case the action failed, please repeat the procedure

Device Grouping:

- Using the Budderfly web application, it is possible to create a Group of devices that can be controlled remotely simultaneously with just one click.
- Budderfly Power Strips can join/disjoin groups at any time.

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Power consumption:

Budderfly Power Strip will measure the current, the voltage and the power consumed by the connected load, and will store the consumed energy.

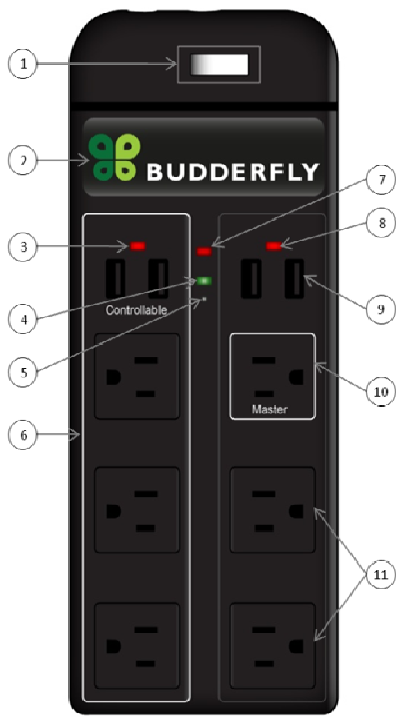
The data can be accessed at any time thru the Budderfly software. The user can generate reports, monitor the consumption or check expenses.

Budderfly Power Strip has 3 Measurement channels for the Power outlets and 1 measurement channel for the USB Outlets.

LED Indicators:

The Budderfly switches are equipped with 2 LEDs that will indicate the state of the device.

- Power LED:
 - o Color: Red
 - o State:
 - Off: Budderfly Power Strip is not powered.
 - On: Budderfly Power Strip is powered.
- Group LED:
 - o Color: Green
 - o State:
 - Off: Budderfly Power Strip is not member of a group.
 - On: Budderfly Power Strip is member of a group.
 - Blinking: Budderfly Power Strip is joining a group (Blinking state duration is less than 1 second).
- Controlled Power Outlets LED:
 - o Color: Red
 - o State:
 - Off: Controlled Power Outlets are turned Off
 - On: Controlled Power Outlets are turned On
- Protection LED:
 - o Color: LED
 - o State:
 - Off: Surge Protection circuit is not functional
 - On: Surge Protection circuit is functional



- 1: Power Switch
- 2: Illuminated Logo
- 3: Controlled Outlets Indicator
- 4: Group Indicator
- 5: Reset Button
- 6: Three controllable power outlets + 2 controllable USB outlets
- 7: Protection Indicator
- 8: Power Indicator
- 9: Non-Controllable USB Outlets
- 10: Non-Controllable Power Outlet. Single measurement channel
- 11: Two Non-Controllable Power Outlets. Single measurement channel

Reset:

If the device stops responding, it can be restarted by pushing the Reset Button. A non-metallic pin should be used to push the reset button. None of the stored parameters are affected.



WARNING –ELECTRICAL SHOCK HAZARD

- Never use a metallic pin to press the reset button.

Communication:

The Budderfly Power Strips use the power line to communicate with the “Facility Controller”.

These strips can reply to the following commands:

- Direct Power Outlet Turn On/Off command: The controllable Power Outlets will turn On/Off.
- Direct USB Outlets Turn On/Off command: The controllable USB Outlets will turn On/Off.
- Join/Disjoin group “X”: The Budderfly Power Strip will Join/Disjoin the group “X”. Each strip can be member of several groups at the same time.
- Group Turn On/Off: All Budderfly Power Strips that are members of the same group can be controlled remotely with one click.
- Direct RTC synchronization: The Budderfly Power Strip can receive a command to synchronize its “Real Time Clock”
- Get Actual Measurement: When the Budderfly Power Strip receives a “Get Measurement” command, it will send back to the facility controller a string of data that contains:
 - The Current in Amps “A”.
 - The Power in Watt “W”.
 - A Timestamp.
- Get Stored Measurement: The Budderfly Power Strip will send back to the Facility Controller the stored electrical measurements.
- Direct Reset Commands: The Budderfly Power Strip can receive 3 types of reset commands:
 - Hard Reset: This command will restart the device without affecting any stored parameter.
 - Data Reset: This command will erase all the measurement and RTC data stored in the non-volatile memory.
 - Group Reset: This command will remove the device from all joined groups.
- Group Reset Commands: The above reset commands can be directed to a group of devices instead of just one device.

Warranty:

Budderfly LLC warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Budderfly is free of defects in material and workmanship under normal and proper use for a period of three (3) years from date of delivery to you. Budderfly’s only obligation is to correct such defects by repair or replacement, at its option, if within such three year period the product is returned prepaid via Budderfly’s Returned Materials Authorization (RMA) process to **Budderfly LLC, Att: Quality Assurance Department, 4 Corporate Drive, Suite 387, Shelton, CT 06484**. In no case is product to be returned without first obtaining an RMA.

This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose**, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to three years. **Budderfly is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. Budderfly’s liability on any claim for damages arising out of in connection with the manufacture, sales, installation delivery, or use of the product shall never exceed the purchase price of the product.** The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

FCC NOTE:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS OR CHANGE TO THIS EQUIPMENT. SUCH MODIFICATIONS OR CHANGE COULD VOID AND CHANGE ANNTENA WHICH THE MANUFACTURER PROVIDES. IT IS THE USER’S AUTHORITY TO OPERATE THE EQUIPMENT.