

CUTTING EDGE POWER

"Innovative Renewable Energy Solutions"

SMART POWER METER USER MANUAL

smart
TECH



INTELLIGENCE.

Discover the Cutting Edge in Wind Generation

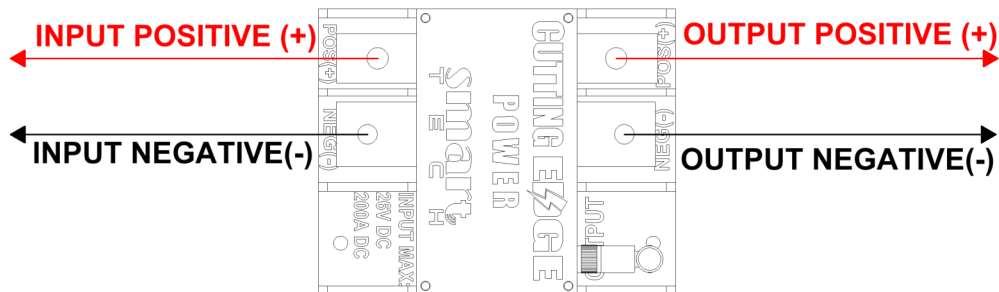
CAUTION
THINK SAFETY FIRST

The warnings, precautions, and instructions discussed in this instruction sheet cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator. **While Cutting Edge Power is proud to be an American company dedicated to producing a high quality product, we are not responsible for any property or personal damage to you or your device due to use/misuse of this product. Always use good judgement and never try to modify or disassemble this product.**

Thank you for your joining the Internet of Things revolution regarding Renewable Energy with this DC power meter!

The Cutting Edge Power Smart Power Meter is designed to measure and report the performance of your wind turbine in real time. The Cutting Edge Power Smart Power Meter will be wired to the output of your wind turbine, and it must be located indoors and within the range of your wi-fi signal.

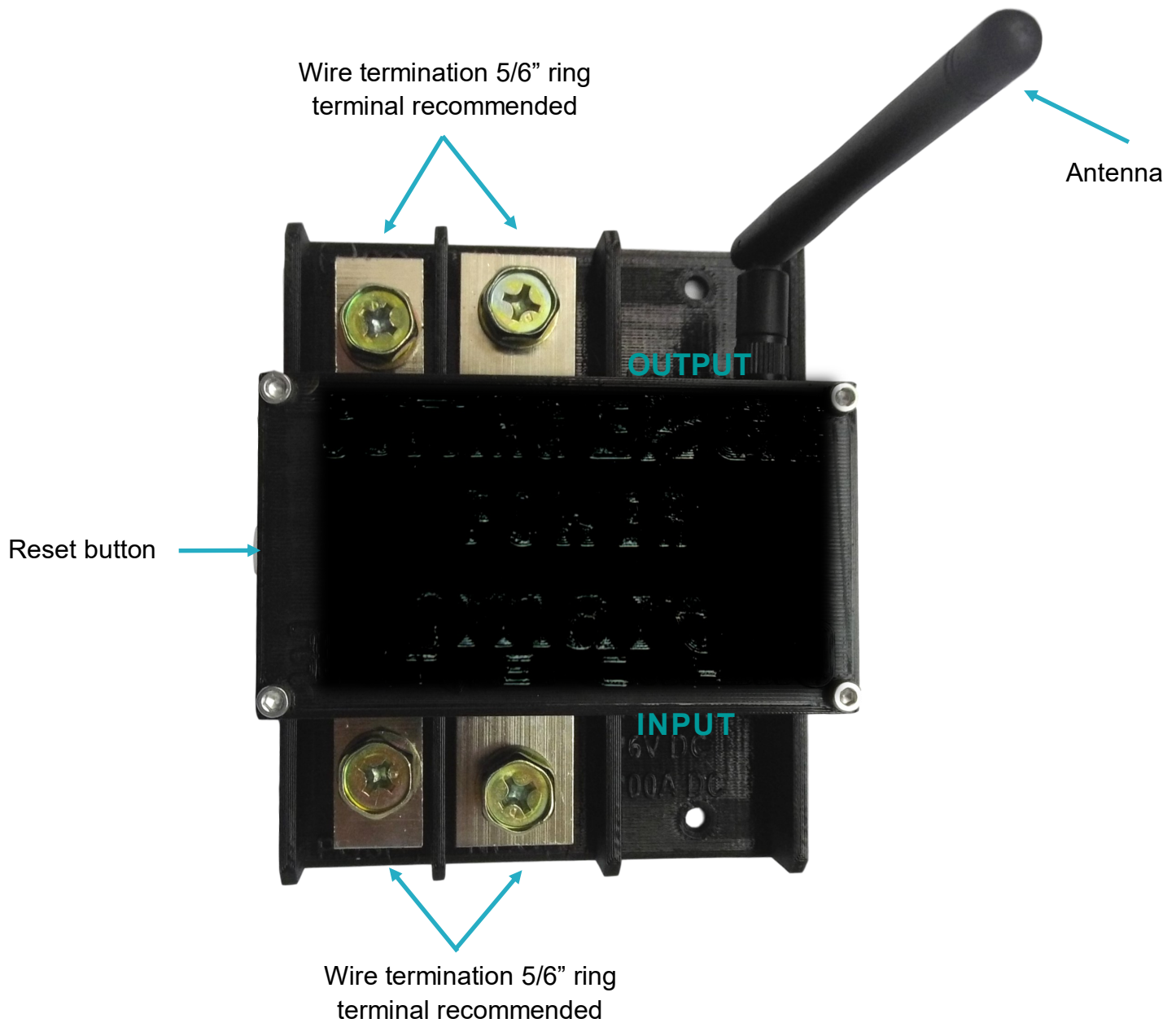
It is very important to not exceed the 26VDC maximum rating to avoid non-warranty damages. Upon inspection, a surge/overvoltage condition can be seen due to component failure. Thus, it is highly recommended to install the Smart Power Meter downstream from a charge controller. Which can protect the Power Meter from high voltages. A 200ADC circuit breaker is also highly recommended.



NOTES:

- 26V DC MAX
- 200A DC MAX
- 200A DC CIRCUIT BREAKER RECOMMENDED
- OVERVOLTAGE PROTECTION RECOMMENDED

Learn the parts of your device and keep in mind, the two sides of the Cutting Edge Power Smart Power Meter are differentiated by the INPUT and OUTPUT signs. This will be extremely important when wiring.



SETTING UP YOUR APP

Step 1:

Download the Cutting Edge Power App



Step 2:

Create your account

Step 3:

Add new device

Step 4:

Enter your wi-fi credentials

Step 5:

Make sure your Smart Power Meter is powered with at least 1VDC

Step 6:

Connect to Wi-Fi of your Smart Power Meter, the SSID starts with CuttingEdgePower...

You will now be able to track your Smart Wind Turbine locally and remotely, as long as the Smart Power Meter is connected to the internet. If you experience any problems during above steps, please visit the troubleshooting page.

SPECIFICATIONS

Voltage	7-26 VDC
Current	200 ADC max
WiFi Requirement	Standard 2.4Ghz, internet access
Connection terminal	5/16" screw terminal
Operating Temperature	-40°F to 140°F (-40°C to 60°C)
Accuracy	±4%
Weight	1 lb

TROUBLESHOOTING AND REPAIR

Feature	Possible cause	Recommended action
The Smart Power Meter does not pair to a new wi-fi network	It is paired to a different wi-fi network	<ul style="list-style-type: none"> • Change the credentials to make them exactly like the network's the Smart Power Meter is paired to. • Hold the reset button on the side of the Smart Power Meter for 10 seconds, then release. Then, pair it to a new network.
The app doesn't show any changes in the performance of the Wind Turbine	The Cutting Edge Power Smart Power Meter is not located within the Wi-fi range of your internet source.	<ul style="list-style-type: none"> • Point the antenna towards the internet source. • Move the Cutting Edge Power Smart Power Meter closer to the internet source. • Get a wi-fi extender device.
Measured values in app are negative.	The INPUT wires are wired to the OUTPUT.	Swap INPUT/OUTPUT wires.
No communication with app	No power provided to Smart Power Meter	Make sure at least 1VDC and 500MA are available to energize Smart Power Meter.
No communication with app	Power meter is paired to a different Wi-Fi network.	Hold the reset button on the side of the Smart Power Meter for 10 seconds, then release. Then, pair it to a new network.
No communication with app	Surge/overvoltage	An overvoltage condition of 26.5VDC or more will void the warranty and could damage the Power Meter. Send to Cutting Edge Power for non-warranty service.



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