

MNS POWER GENERATING SYSTEMS

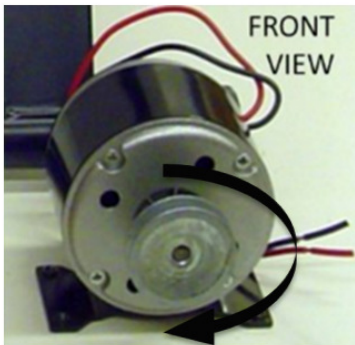
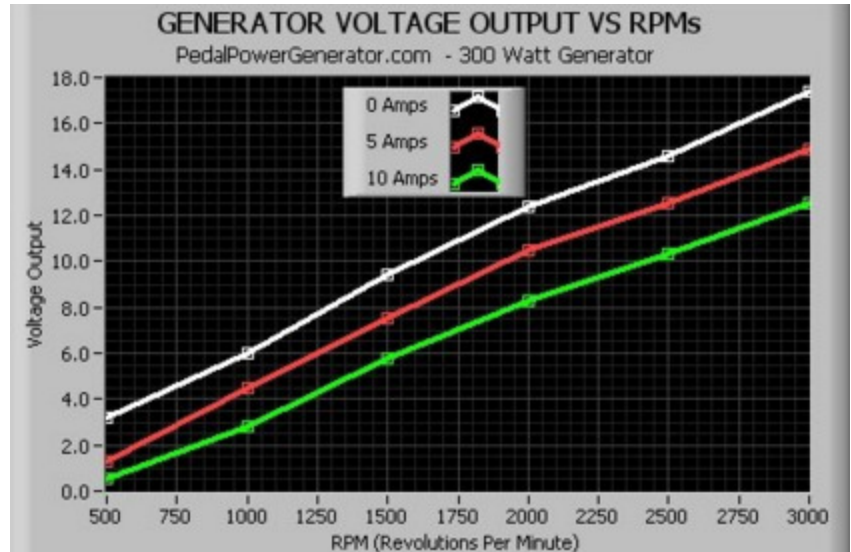


ph : 480-326-8038 (U.S.)

THANKS FOR YOUR ORDER!

This DC Generator puts out a DC Voltage is proportional to how fast it spins. The bottom green line on the graph shows you Voltage on the vertical axis and RPMs (revolutions per minute) on the horizontal axis. At 2,000 RPM the Voltage reaches about 12V.

It fits a 3/8" wide V-belt. You can use an adjustable length V-belt called "Powertwist". This allows you to adjust the length of the belt to fit a children's bike 20" wheel, or an adult bike 26" wheel.



Clockwise

There are four mounting holes on the foot that fit a 6mm size bolt our screw. This is a metric size. You can also use screws with washers on them to mount to wood our metal.

As a side note the generator also works as a regular DC motor which can be used for a wide array of applications.

Spinning the pulley as shown in the clockwise direction will result in the Red wire being positive and the black wire being negative.

BATTERY CHARGING

You can use this product to charge a battery through a blocking diode. To understand the need for a blocking diode, watch the short video posted at <http://Blockingdiode.com>



A fuse is critical when charging batteries. They store a tremendous amount of energy can cause harm to person and property. Your local Autozone store sells a simple in line fuse for under \$5.00 that can work great to protect your system. Select a 15Amp fuse when charging the battery with this product from a bike generator. We recommend using size 12AWG wire to connect to the fuse and to the battery

Specifications

Peak Current Rating	20 Amps
Peak Power Output (Charging 12V Battery)	300 Watts (15V x 20 Amps)
Drive Type	2" Diameter Pulley
Peak Operating Temperature	100°C
Cooling Method	Air-cooled
Shaft Bearing Type	Ball Bearing
Mounting Bolt Size	6 mm
Wire Lead Length	~12"
Wire Lead Size	Size 12 AWG
Approximate Weight	~8 Lbs
Number of Poles (Brushes)	4
Generator Type	This is a DC permanent magnet motor being used as a generator.
Peak to Peak Voltage	Varies depending on RPMs (See this output waveform)
Voltage Output Vs. RPM	Voltage Curve Graph
Rated Operating Speed	2800 RPMs (peak 4,000)
Internal Resistance	~ 0.35 Ohms

Recommended Tools

When connecting and testing the generator it is helpful to have a Volt meter and wire strippers / crimpers as shown in the photo.



Recommended Wiring Parts

DIY BIKE GENERATOR WIRING KIT



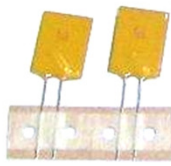
Size 12 Stranded Wire



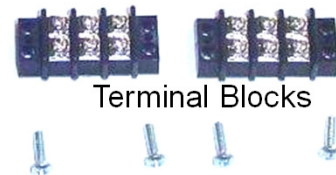
Fork Connectors



But Splices



Thermal Fuse



Terminal Blocks