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MODEL HPG-LBD-75



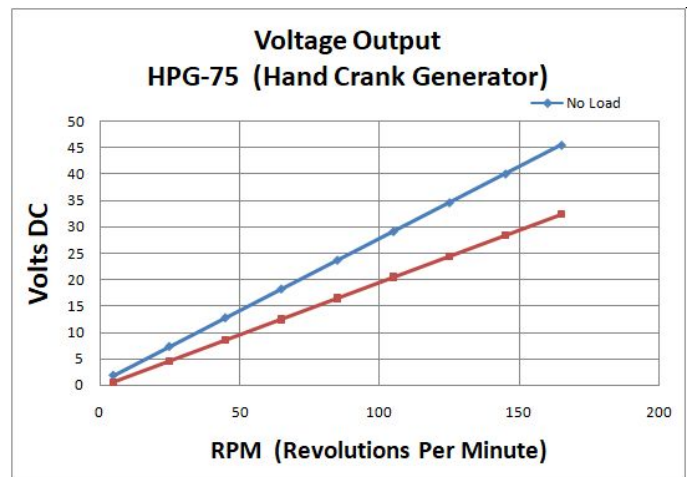
The HPG-LBD-75 human power generator LED light box display provides an educational and interactive experience for 5 years and older. This system is designed for harsh environments such as a science center museum where it gets used hundreds of times day, 365 days a year. It is made from actual bicycle foot cranks, sprockets, and chain.

VOLTAGE CURVE

This chart shows Voltage output with respect to revolutions per minute speed. The data was collected under 2 test conditions:

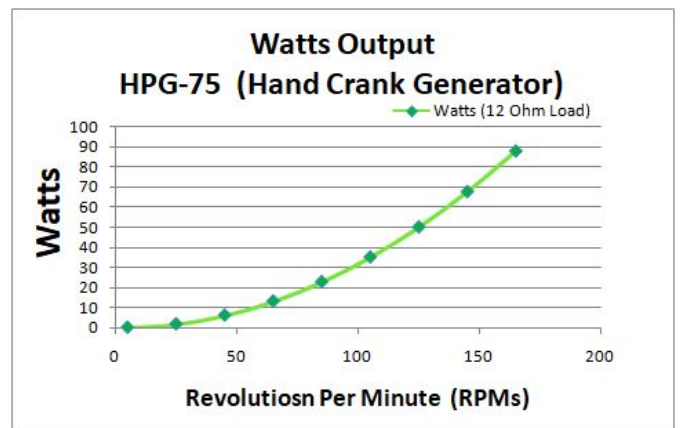
1. No load
2. 12 Ohms load

The graph below on the right shows the approximate Watts output vs. revolutions per minute.



SPECIFICATIONS

Output Voltage Range	0 to 45V DC
Peak Wattage Output (going into 12Ω load)	90W
Max recommended cranking R.P.M.	150
Hand crank Base Size	12" x 12"
Hand crank Height	18"
Cord length	> 5 Feet
Max allowable power for all 3 bulbs at once	75 Watts
Hand crank weight	25 Lbs
Light bulb box weight	10 lbs
Bulb base type	A19
Bulb operating Voltage	12V



APPLICATIONS:

- Science center museum displays
- LED vs Incandescent bulb awareness programs (used by public utility companies)
- Battery charging

ACCESSORIES:

- Finger protection shield on backside
- Tamper proof cabling from cranks to box
- Clear plastic cover for light bulbs to prevent kids from touching bulbs
- WattsVIEW power display software to show in flat screen customized for your company / organization

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Battery Charging

- This generator system is a great source of emergency power for lights or cell phone charging, or whatever the need may be.
- The most common way to save power made from the human powered generator is done by charging a 12V battery.
- Below there are two readily available options for the 12V battery approach.
- A cable adapter can be used that will convert from the generator - contact us for pricing on the adapter cable.

12V BATTERY CHARGING

Human Power Generator (Hand Crank Configuration)



Blocking Diode

<https://amzn.to/2lsvWlv>

10 Amp Fuse

<https://amzn.to/2mUtvbR>

12V Battery

<https://amzn.to/2InDeH4>



OR

12V Power Pack



<https://amzn.to/2mUhmDM>

