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 a 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

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

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/2lsvWfy

10 Amp Fuse
https://amzn.to/2mUtvbR

12V Battery
https://amzn.to/2lnDeH4

OR

12V Power Pack
https://amzn.to/2mUhDM