Generator bike+
Activity display

Generator bike

The generator bike is the ideal way to learn about renewable energy.
Experience and understand energy in a hands-on way - this is the idea behind the generator bike. Various devices requiring electric power are powered using muscular force.
Whereas the energy-saving lamp is illuminated without too much effort, hard work is needed for light from the conventional filament lamp.
Athletic performance is called for if the kettle is now switched on as well.

Up to four devices can be operated simultaneously from the 12 V outputs available.

Activity display

The actual electric power is displayed analoguely by means of 24 symbolic incandescent lamps (inside LED).
The higher the actual generated power is the more lamps are in operation.

The generated energy is displayed analoguely by red balls, which were transported by a wheel into the catch tank.
The number of balls transported depends on the generated energy.
At the end of the experiment the balls are filled back into the above storage tank and the digital display for the patial energy yield is set to zero.

Digital displays for the actual generated power, the partial and the total energy yield are there additionally.

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Technical data Generator bike:

- Total dimensions L/W/H: 110/53/123 cm
- Weight: 40 kg
- Generator: 12 V DC / max. 750 W
- Operationg console
  - Voltage meter up to 15 V
  - Current meter up to bis A
  - 4 switches
  - 2 Lamp sockets E27
  - 2 Sockets 12 Volt
- Accessories provided
  - 12V-Radio cassette player
  - 12V-Kettle
  - 12V-Filament bulb E27, 60 W
  - 12V-Energy-saving lamp E27, 11W
- Sockets for Activity display
- Only for indoor use

Technical data Activity display:

- Dimensions display H/W/T: 104 x 84 x 15 cm
  Dimensions with display stand H/W/T: 200 x 87 x 90 cm
- Weight: 25 kg
- Power supply 230 V / 50 Hz, 12 V DC
- Digital LCD displays
  - actual power
  - Partial energy yield (mit Reset-Funktion)
  - Total energy yield
- Analogue display of the actual power by
  24 symbolischen “incandescent lamps” (LED inside)
- Analogue display of the generated power by red balls (360 pieces), which are transported by a wheel from the storage tank into the catch tank depending from the generated energy
- Removable catch tank, secured by lock
- Low power consumption (max. 6,5 W)
- Connecting plugs for the Generator bike
- Only for indoor use

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Training systems
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Subjekt to alteration. State: 2014-06