Powering the Internet of Things

Wireless power for your sensor systems

What's in it for you?

- Enables remote monitoring
- Elminates need for cables/batteries
- High ROI

ReVibe Energy has established itself as one of the world's leading suppliers of wireless and sustainable power sources for Industrial IoT applications.

Applications within the construction & mining industry are often related to condition based monitoring, predictive maintenance as well as fleet management.

ReVibe Energy provides a long-lasting, sustainable and cost efficient power source through transforming vibrations into electricity.

Our harvesters can be mounted straight to the vibration source and be left in operational mode for the entire lifetime of the sensor system

RevIbe Energy - A part of SAAB

Get in touch to discuss your needs!

contact@revibeenergy.com, +46 (0)31 24 23 22

www.revibeenergy.com

Datasheet

Performance datasheet - modelA & modelD

The products

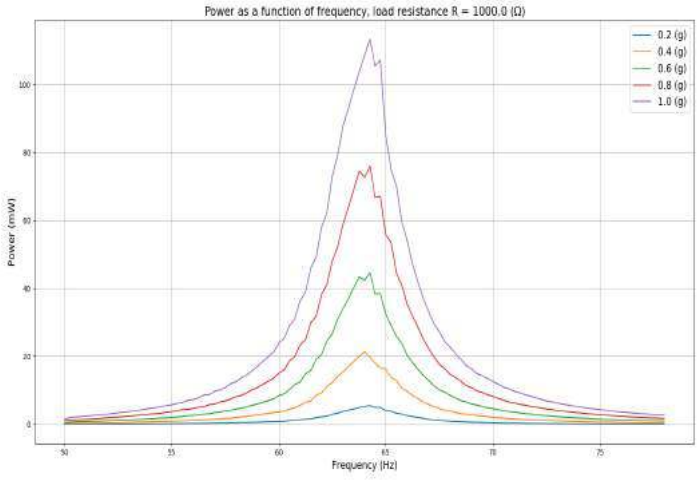
ReVibe Energy is happy to introduce you to the modelD, the modelQ and the modelA vibration energy harvesters – all developed to deliver high electric output in relation to its size and weight.

Our products enjoy the benefits of a ruggedised design, creating the ability to outperform
alternative power sources in extreme environments.

- Dimensions:
  - modelD: 61 mm (height) x 32 mm (diameter)
  - modelQ: 25 mm x 25 mm x 25 mm (1x1x1")
  - modelA: 155 mm x 53 mm x 17 mm
- Weight:
  - modelD: 120 g
  - modelQ: 60 g
  - modelA: 300g
- Operating temperature: -20 °C – +85 °C
- Service life:
  - > 10 yrs. (estimated, depending on application)
- Output Voltage
  - Standard: Unregulated AC
  - Optional: 2.8 - 5V DC
- Energy storage with super capacitor or rechargeable battery (optional)

Performance Parameters	
Input acceleration @ 60Hz	Power output
0.05 *g*	1 mW
0.1 *g*	4.5 mW
0.5 *g*	70 mW
1 *g*	150 mW
3 *g*	300 mW

Input Vibration		
	Frequency	Acceleration
modelD	20 – 100 Hz (factory tuned)	0.05 – 1 g_{rms}
modelQ	20 – 100 Hz (factory tuned)	0.05 – 1 g_{rms}
modelA	15 – 100 Hz (factory tuned)	0.5 – 10 g_{rms}



Example of modelD energy output on sine vibration

(resonance frequency = 62.5 Hz)

Let us know how we can assist you!

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