

EVERGEN® POWERSTRAP™ GENERATOR EHBMS

Description

The Coherent EverGen® PowerStrap™ Generator is a revolutionary product utilizing thermoelectric technology to harvest thermal energy and convert it into an economical and perpetual form of electrical energy. The EverGen® PowerStrap™ Generator provides an off-grid electrical power source in place of, or complementary to solar power; for industrial, commercial, oil & gas applications.



FEATURES

- Non-invasive thermal energy harvesting power source
- Available for 6", 8", 10", 12", 14", 24" & 36" NPS pipe sizes
- Ideal complement to solar; providing uninterrupted power year-round
- Specifically suited for cold environments
- Single bolt compression installation (Double Bolt for 24" & 36" Models)
- Configurable for vertical and horizontal pipes
- Modular design for multiplicative power output
- Class 1, Division 2, group A-D certified
- Patented – US 8,933,317
- Standard 1 Year warranty
- EU RoHS compliant
- EU REACH compliant

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Electrical Technical Specifications

Pipe Diameter	6"	8"	10"	12"	14"	24"	36"
Number of Facets/Strap	5**	6**	8	9	10	10	10
Strap Outer Diameter (in)	15.5	17.5	19.7	21.7	22.9	33.1	43.4
Weight (lbs.)	13	15	21	23	26	27	27.5
Max Power Output /Strap (W)***	7.4	8.9	11.8	13.3	14.8	14.8	14.8
Max Short Circuit Current /Strap (A)***	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Max Open Circuit Voltage (V)***	28.7	34.5	45.9	51.7	57.4	57.4	57.4

* Multiple PowerStraps™ can be electrically configured at the controller in series or parallel to increase output. A maximum of 3 inputs can be configured electrically in parallel (for current input constraints).

** Outputs of two 6" or two 8" straps must be configured electrically in series to meet the minimum input threshold for the EverGen® PowerStrap™ Controller

*** Performance data assumes natural convection conditions with $T_{ambient} = -40C$ and $T_{pipe} = 160C$. The presence of wind under these conditions will increase max output values reported.

Ordering Options

Model Number	Description
EHBMS-06-V	EverGen® PowerStrap™ Generator, 6" Pipe Diameter, Vertical Configuration
EHBMS-08-V	EverGen® PowerStrap™ Generator, 8" Pipe Diameter, Vertical Configuration
EHBMS-10-V	EHBMS-10-V EverGen® PowerStrap™ Generator, 10" Pipe Diameter, Vertical Configuration
EHBMS-12-V	EHBMS-12-V EverGen® PowerStrap™ Generator, 12" Pipe Diameter, Vertical Configuration
EHBMS-14-V	EHBMS-14-V EverGen® PowerStrap™ Generator, 14" Pipe Diameter, Vertical Configuration
EHBMS-24-V	EHBMS-24-V EverGen® PowerStrap™ Generator, 24" Pipe Diameter, Vertical Configuration
EHBMS-36-V	EHBMS-36-V EverGen® PowerStrap™ Generator, 36" Pipe Diameter, Vertical Configuration

Complimentary Products

Model Number	Description
EHCC-A-(1,2,3 or 4)	Analog MPPT Charge Controller – 1, 2, 3 or 4 PowerStrap™ Inputs

Typical Performance Curves

