



SopoFlare™ MicroCSP™ Rooftop Mountable System



SOPOGY - THE TOTAL SOLAR SOLUTION

Sopogy Inc. is a Hawaii-based company with a mission to invent, manufacture and sell the world's most innovative and affordable concentrating solar power collectors. Our company strives to become part of the solution to global problems including climate change, energy security and sustainability.

Sopogy is dedicated to helping our customers achieve their renewable energy goals. Our concentrating solar power technologies help maximize energy production while minimizing costs.

ADVANTAGES

- Reduce Your Energy Cost
- Create Revenue Streams
- Lower Emissions
- Qualify for Renewable Energy Certificates
- Benefit from Tax Credits and Incentives

SOPOFLARE™ HIGHLIGHTS

Applications:

- Desalination
- Process Heat
- Solar Cooling

Roof Mounted Racking Systems
Retrofit Capabilities

MicroCSP Solutions By:

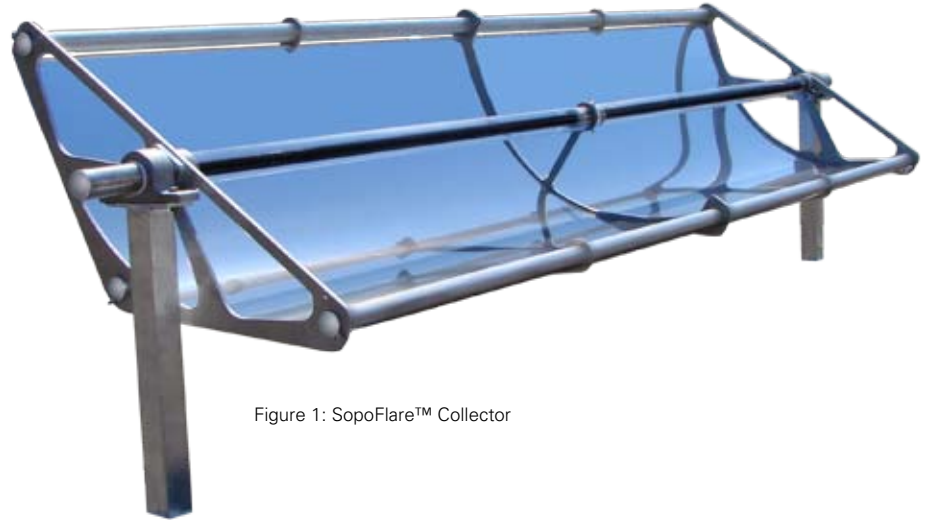


Figure 1: SopoFlare™ Collector

Overview

Sopogy has pioneered the concept of MicroCSP bringing concentrated solar power to industrial and utility facilities. These systems have a small footprint and lightweight design while providing highly efficient electrical and thermal power generation from a renewable and sustainable fuel: solar energy.

SopoFlare is a rooftop mountable system which can be used for process heat or air conditioning applications. In addition, SopoFlare can be integrated into existing systems to minimize traditional energy consumption and increase energy efficiency. Our unique design combined with our proprietary assembly racks enables easy assembly of the SopoFlare collectors on rooftops.

The system consists of a scaled down version of Sopogy's parabolic trough that is able to follow the sun from east to west during the course of the day using our proprietary tracking controls. Individual SopoFlare collectors can be custom designed to fit existing rooftops and minimize the number of tracking systems needed.

Features:

- Powered by renewable solar energy
- No emissions
- Automated system control and monitoring
- Produces temperatures as high as 150–250 °F (66–121 °C)
- Stow Mode

Benefits:

- No fossil fuel payments
- Federal Solar Tax Credits
- Federal Accelerated Depreciation
- State Tax Credits
- One energy input, multiple energy outputs
- Low price point

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West Coast Solutions Center: 1735 Technology Drive, Suite 400 · San Jose, CA 95110 · ph: (866) 767-6491 · fax: (408) 351-8883

www.sopogy.com

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SopoFlare™ MicroCSP™

Rooftop Mountable System

COLLECTOR - General Data*

Description	Units (Metric)	Units (Standard)
Collector Length	2.44 m	8 ft
Collector Width	0.76 m	2.50 ft
Total Collector Area	1.85 m ²	20 ft ²
Collector Reflective Area	2.47 m ²	26.66 ft ²
Heat Collection Element O.D.	23.4 mm	1 inch
Heat Transfer Fluid Capacity	0.722 liter	0.224 gal
Recommended Flow Rate	22.7-45.4 liter/min	6-12 gal/min
Operating Temperature Ranges	66-121° C	150-250° F
Collector Weight	11.33 kg	25 lb
Focal Length	208.28 mm	8.2 inch
Ambient Operating Temperatures	-10 to 50 ° C	14-122 ° F
Maximum Wind Speed (stowed)	110.4 km/h	68 mph
Maximum Wind Speed (tracking)	169.9 km/h	105 mph
Useful Life Expectancy	30+ years	30+ years

OPTICAL EFFICIENCY

Description	Value
Receiver Absorptivity	0.87
Mirror Reflectivity	0.938
Receiver Emittance (@ 400 °C / 752 °F)	0.23

SOLAR COLLECTOR PERFORMANCE

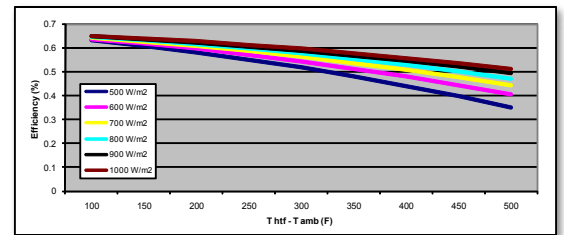
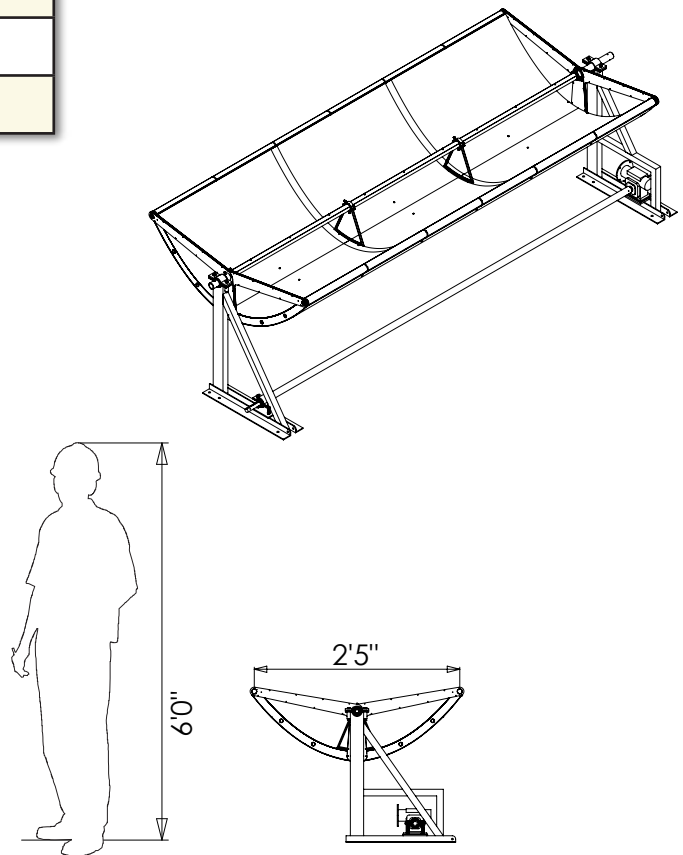
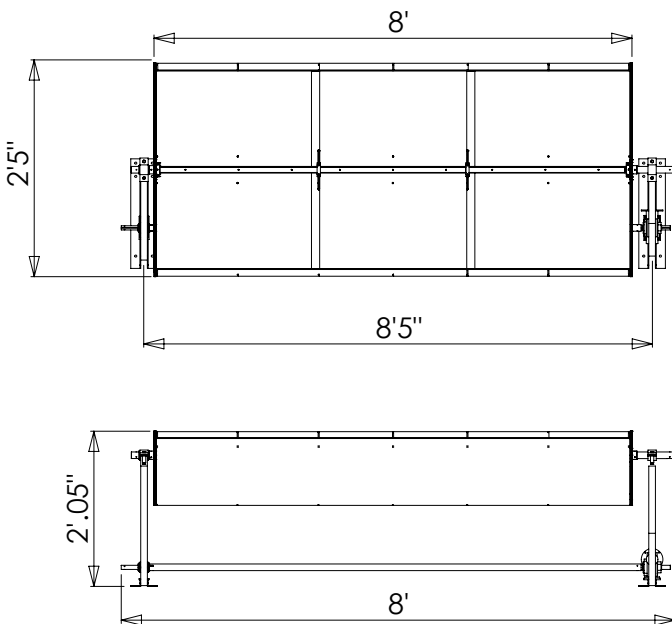


Figure 2: Instantaneous Collection Efficiency

* General data subject to change



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