



Infinia Corporation

Concentrating Solar Power Technology Workshops

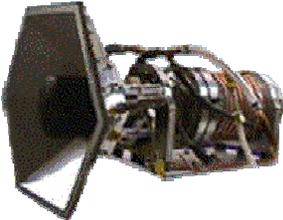
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Overview



- Developer of Long Life Free Piston Stirling Engines
- 22 patents + 5 pending
- World-class licensees for mCHP markets



CSP



DOE & NASA



Commercial mCHP

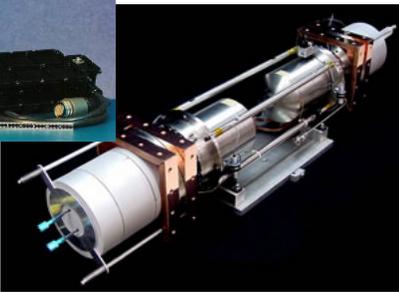
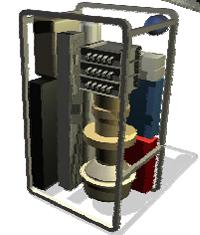


BOSCH



Rinnai

Military mCHP



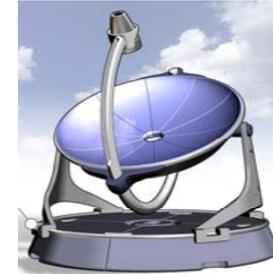
Dish Stirling Product Description



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Engine

- Power - 3kW_{ac net}
- Efficiency - 34%
- Many markets
- Multi fuel capability

Concentrator

- Efficiency - 86%
- 388 Suns
(includes 94% reflectivity, soiling losses + cavity losses)

System

- Efficiency - 24%
- Weight - 985 lbs
- Voltage - 120/240VAC , 1Ø, 3Ø
- 17 year Design Life with 1 Mid Life Service

(System efficiency accounts for system parasitic losses)



We make technology human.™



Ground-mounted Systems



- Market 3 kW Solar Stirling Power Product
 - Single units to MW's
 - Simple installation
 - Sized to fit a variety of installation needs
 - Grid-tied or stand-alone
- Ground-mount and off-grid markets
- Compete on performance, cost advantages vs. PV
- Sell through solar / renewables developers and distributors

Off Grid



Performance vs.
alternatives

Commercial Flat-roof



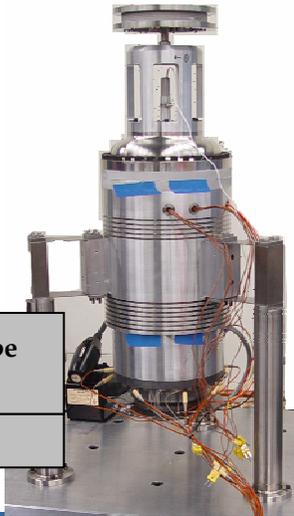
incentives + free real estate"

Key Milestones



Install 1kW Solar Test Unit
1st Q 2006

Build Prototype 3 kW Engine
3Q 2006



Field Trials & Pre-Production Testing
4Q 2007

Sales Ramp
3Q, 2Q 2008

2006

2007

2008



Start 3kW Engine Design
1Q 2006



Build Prototype Solar Stirling Product
3Q 2007

Early Market Projects
2Q 2008

- Urban Pilot Test Sites
 - Small Power Parks
 - Renewable Distributed Power Show Case
 - Visible Urban Setting
 - University and/or Government Partnership
 - Provide Useful Power and Thermal
- Research and Development
 - Thermal Storage
 - Technical Support
 - Added Function & Features to CIRCE & Receiver Code
 - Correlate Reflective Surface Coupon Testing to Real life data

- Validation and Risk Reduction
 - Life & Reliability Testing
 - Engine
 - Mirror Bonding
 - Sensors
 - Tracking & Control
 - Test Support
 - Solar Furnace Testing (engine)
 - Prototype Field Testing
 - Product Field Testing

Infinia's Free Piston Stirling Engine

