

Carmanah Technologies Corporation

Corporate Overview



March 2011

Safe Harbour Statement



The information you are accessing on this website may include forward-looking statements related to our future growth, trends in our industry, our financial and or operational results, and our financial or operational performance. Such forward-looking statements are predictive in nature, and may be based on current expectations, forecasts or assumptions involving risks and uncertainties that could cause actual outcomes and results to differ materially from the forward-looking statements themselves. Such forward-looking statements may, without limitation, be preceded by, followed by, or include words such as "believes", "expects", "anticipates", "estimates", "intends", "plans", or similar expressions, or may employ such future or conditional verbs as "may", "will", "should" or "would", or may otherwise be indicated as forward-looking statements by grammatical construction, phrasing or context.. The risks and uncertainties referred to above include, but are not limited to: variability of operating results among periods; inability to retain or grow our business due to execution problems resulting from significant headcount reductions, plant closures and product transfer associated with major restructuring activities; the effects of price competition and other business and competitive factors generally affecting the EMS industry; the challenges of effectively managing our operations during uncertain economic conditions; our dependence on a limited number of customers; our dependence on industries affected by rapid technological change; the challenge of responding to lower-than-expected customer demand; our ability to successfully manage our international operations; and delays in the delivery and/or general availability of various components used in the manufacturing process. These and other risks and uncertainties and factors are discussed in the Company's various public filings at www.sedar.com and subsequent reports filed with the Securities and Exchange Commission.

About Carmanah



- Corporate Background
- Key Drivers
- Markets
- Product Portfolio
- Revenue by Market
- Historical Revenue
- Customers
- Why Choose Solar?
- Why Choose Carmanah?
- Manufacturing Highlights
- Technology Benefits
- Carmanah Service

Corporate Background



- Solar LED lighting company specializing in self-contained solar LED lighting
- Publicly traded since 2001: TSX:CMH
- Engineering solar LED technology since 1996
- Manufactured to ISO 9001:2008 standards
- Over 300,000 solar LED lighting installations worldwide
- Key supplier or integrated solar solutions to municipalities, counties, Departments of Transport, coast guards, international airports, military



Key Drivers



Vision:

- Setting the standard for solar lighting innovation and performance

Differentiator:

- Market leading Energy Management System turning solar energy into electricity and then usable light efficiently and effectively



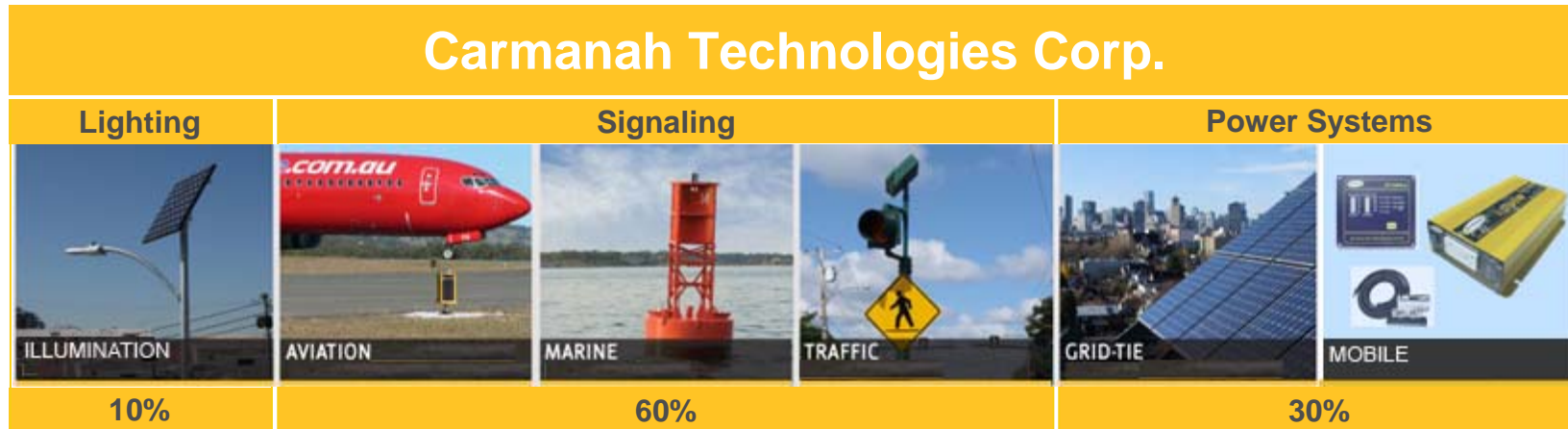
Company is believed to be in #1 or #2 position in all markets it serves.

Markets include:

- Aviation signals
- Obstruction signals
- Marine aids-to-navigation signals
- Traffic beacon signals
- Outdoor general illumination lighting
- Grid-tie industry in Canada
- Mobile power recreational vehicle, work truck, and marine solutions



Carmanah Product Portfolio



<p>Established in 1996 TSX:CMH</p>	<p>~70 Employees</p>	<p>FY2010:</p>	<p>Est. \$34M USD Sales, Positive EBIDTA</p>
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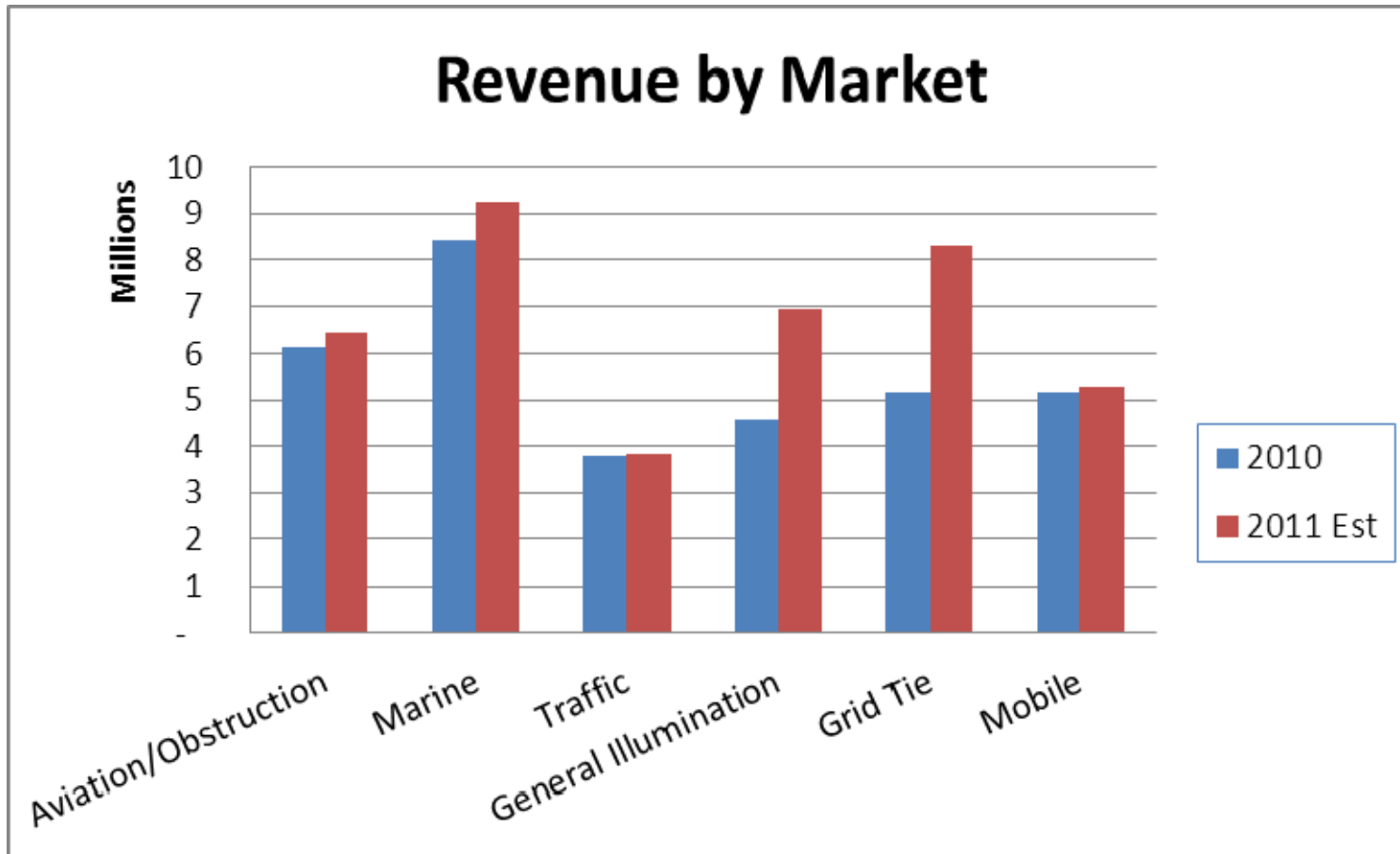
Core Focus: Off-Grid LED Lighting Efficiency

Products: Lighting and Signaling Systems, Power Systems

Carmanah Revenue by Market



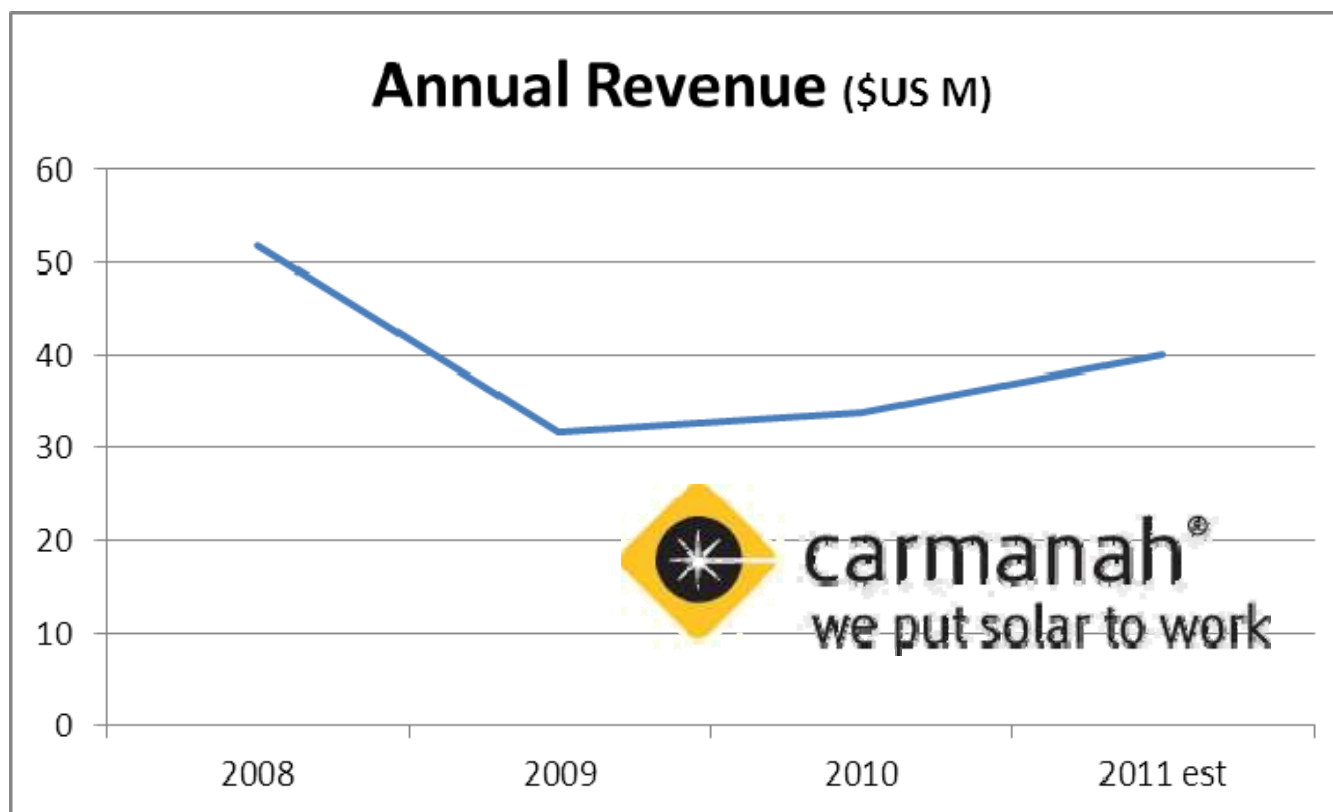
The Company estimates moderate to good growth from all market sectors in 2011



Carmanah Historical Revenue



In 2009, the Company divested several non-strategic businesses to improve strategic focus. Steady growth is being realized since that point.



Carmanah Customers: Examples



JASDF Japan Air Self Defense Force



Teck



Dubai Airports



ALSTOM



Why Choose Solar Powered Lighting?



1. Cost savings:

- no trenching
- no surveys
- no permits
- no traffic disruption

2. Avoiding logistical challenges:

- remote locations
- delicate environments
- difficult terrain
- archaeological sensitivities

3. Environmental initiatives:

- government funding
- green mandates
- showcasing environmental practices



Why Choose Carmanah?



- **Improves safety**
 - Immune to electrical grid failures, proven to endure harsh weather conditions.
- **Reliability Assured**
 - Core energy management system ensures operation; even during periods of cloud cover.
- **Cost-effective solution**
 - No trenching, wiring or specialized work crews required.
 - Eliminates electrical bills, reduced maintenance cycles.
- **Easy retrofit into existing infrastructure**
 - Products install easily within existing infrastructure without expensive site preparation.
 - Easy to relocate and repurpose to other locations if necessary.
- **Compatible with federal funding programs**
 - Eligible for SRTS infrastructure funding.
- **Quality Ensured**
 - Manufactured in accordance with ISO 9001:2008 standards. Backed by a 3-year limited warranty.

Carmanah Technology: Overview of Benefits

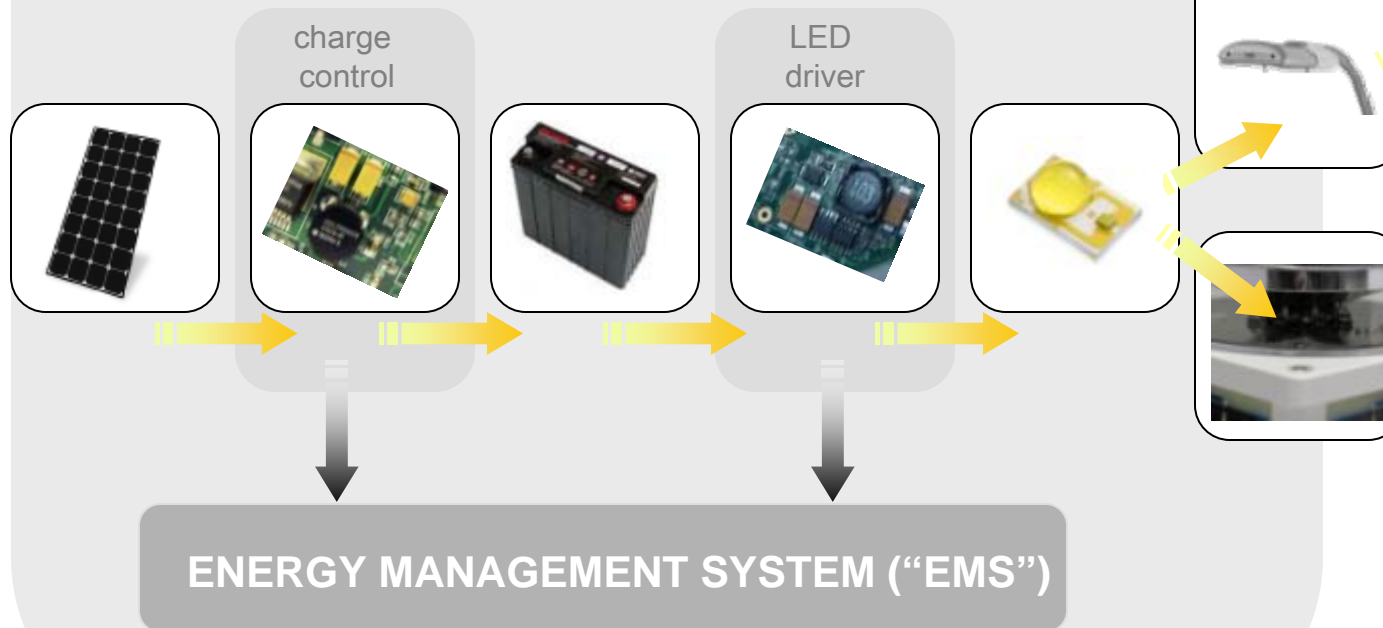


- **Integrated, self-contained solar technology solutions**
- **Cost savings**
 - Reducing total cost of ownership
 - Lower install cost
- **Improved Safety**
 - Lighting and security
- **Energy autonomy**
 - Reducing dependency on the grid
 - Enabling power for remote/austere applications
- **Minimal environmental impact**
 - Reducing carbon footprint
 - Completely recyclable components

Carmanah Technology: Energy Management



Energy Conversion Focus



Systems

Lighting



Signalling



Manufacturing: Products ARRA Compliant



Carmanah lighting and signaling products are manufactured in Houston, Texas by our partner Flextronics and are Buy American Compliant.

FLEXTRONICS



Carmanah Service



Carmanah maintains a network of authorized distributors that are deploying solar powered products for applications around the globe.

Carmanah Technologies employs a diverse team of professionals dedicated to servicing this network, the customer, and our investors.

For more information, please contact our customer service team at:

customerservice@carmanah.com



Products: Lighting & Signalling



- Aviation signals
- Obstruction signals
- Marine aids-to-navigation signals
- Traffic beacon signals
- Off-Grid LED Lighting Products

Off-Grid LED Signalling Products



End Customers:

- US, foreign defense
- Coast guards
- Oil/Petroleum
- Mines
- DOTs

Partner & OEM Relationships:

- SABIK
- ADB
- Private label OEM



Aviation Lighting Product Suite



A650



A702 Series



A704-5



ERGL



SLASL



Solar LED Windsock

Aviation Lighting Product Suite



- **Solar LED airfield lighting solutions for permanent or temporary installation:**
 - Commercial
 - Private
 - Defense/tactical/expedited

- **Applications:**
 - Taxiway/runway
 - Helipad
 - Threshold/Apron
 - Hazard/obstruction/perimeter marking
 - Sign Lighting
 - Runway Guard Lighting
 - Windssock



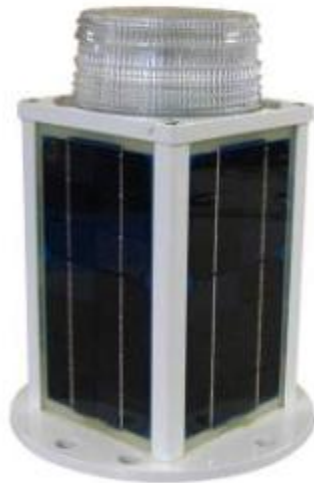
Obstruction Lighting Product Suite



A650



A704-5



A702 Series



A810

Obstruction Lighting Product Suite



- **Carmanah obstruction lighting is designed to withstand the hard wear of industrial environments**
 - Ideal for fixed obstruction marking in a variety of applications
 - Easy relocation, reliable operation: Rugged, self-contained, portable design
- **Applications:**
 - Industrial worksites
 - Railway, mining, oil & gas applications
 - Towers, cranes, bridges, wind turbines, other fixed and aerial structure marking
 - Security and safety lighting



Marine Lighting Product Suite (Partial)



Sabik SC 155



Sabik SC 110



M702-5

M704-5

M701-5

M502

M708

M650



Sabik LED 155



Sabik LED 350

Marine Lighting Product Suite



- **Carmanah Sabik Partnership delivers total marine lighting solutions from 1-18 nautical miles. unmatched and unprecedented in the maritime world:**
 - 1-18 nautical miles
 - Energy-efficient solar LED and LED solutions
 - Industry-leading, innovative technologies
- **Applications:**
 - Fixed and floating aids-to-navigation
 - Ports, marinas and harbours
 - Marinas/harbours



Solar LED Flashing Beacon Product Line



**R247 – 24-Hr
Solar LED Flashing
Beacon**



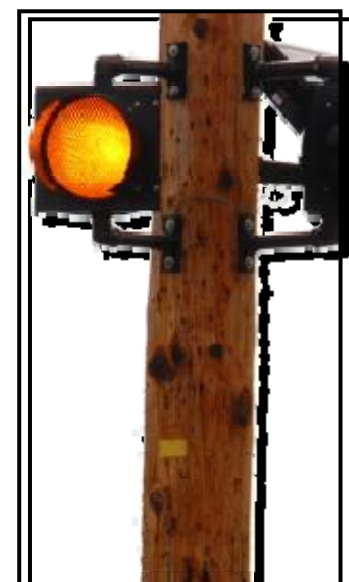
**R820 – Crosswalk
Solar LED Flashing
Beacon**



**R829 – School Zone
Solar LED Flashing
Beacon**



**R838 – Remote-Activated
Solar LED Flashing
Beacon**



Solar LED Flashing Beacons for Traffic



- **Traffic Applications:**

- Obstructions and Approaching Hazards
- Construction and Work Zones
- Emergency Response Stations
- School Zones
- Crosswalks
- Railways

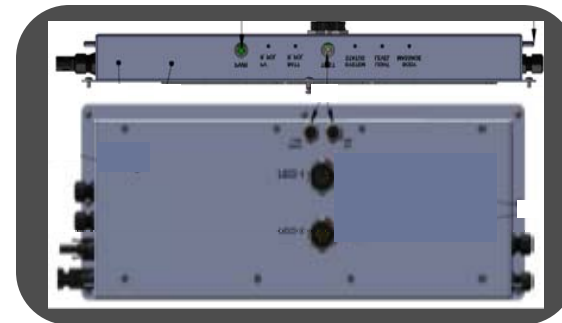


Off-Grid LED Lighting Products



End Customers:

- Lockheed Martin
- Southern California Edison
- Nuclear Generating Facilities
- City of LA
- Madison Gas & Electric



Considerations for Solar Lighting

New sites when:

- grid power a problem
- high trenching costs
- costly underground checks
- location of utilities unknown
- sustainability a concern

Existing sites when:

- lighting not installed
- cost of disruption high
- insufficient lighting
- wiring / conduit at end-of-life
- sustainability a concern

Green mandates are present:

- credit programs
- government reimbursement
- green practices



Products: Solar Power Systems



- Solar Grid-Tie
- Mobile Power Systems

Solar Grid Tie



Carmanah is Canada's most trusted name in grid-tied photovoltaic projects and is recognized as the EPC industry leader

- Carmanah has designed and installed off-Grid and Grid Tie systems in Canada since 1986
- Completed more commercial roof top PV systems in Canada than any other solar technology provider
- Installations in almost every province and territory
- Portfolio consists of the many of the largest commercial roof top grid-tied solar power projects to date



Solar Grid Tie



Carmanah has delivered turn-key commercial grid-tied systems to:

- Government Institutions
- Universities
- Schools Districts
- Private Organizations
- Housing Improvement Projects



Value of commercial grid-tied systems

- low risk investment with guaranteed return
- professionally engineered solutions for optimal performance
- low component count with lengthy manufacturers warranties
- offsets continued rising energy costs
- promotes sustainability practices with visual impact
- contributor to LEED certifications
- utilizes existing unused roof top space

Solar Grid Tie

Carmanah is very well positioned for potential revenue growth with the latest Ontario Feed-In-Tariff Program

FIT Program highlights:

- launched in late 2009
- commitment to substantially increase the amount of energy produced by renewable energy sources
- recognized as one of the best renewable energy programs in the world
- job creation platform through domestic content requirements
- 2 main streams for solar (MicroFIT & FIT)
- Incredibly successful program with a high volume of applications and significant number of projects currently producing energy



Mobile Power Systems



- **Marketed under the Go Power! Brand**
- **Go Power! is the premier source for mobile AC and DC power solutions**
- **Recognized as the market leader in offering a complete line of durable, lightweight, versatile products.**
- **Go Power! Value add:**
 - Complete turn-key power solutions
 - Retail ready packaging
 - Full Technical Support
 - On-line training
 - Mobile power sizing tool



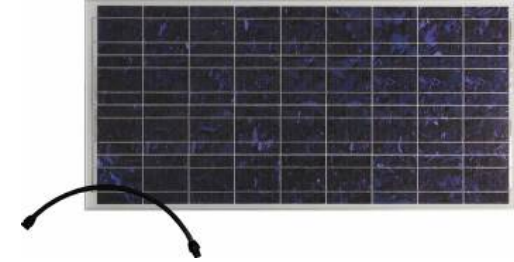
Mobile Solar Product Suite



Solar Charging Kits
10W – 125W



DURAlite
5W – 20W



Expansion Kit
50W – 125W



Solar Regulator



Complete Solar & Inverter Kit
125W – 250W



AGM Battery

Mobile Solar Kit Product Suite



Solar charging kits for Mobile and off-grid applications

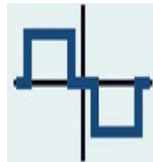
- Recreation vehicles
- Fleet Vehicles
- Marine
- Remote Industrial
- Cottage



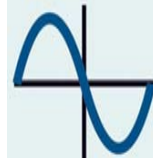
Features:

- Carmanah CTI branded Solar Panels:
 - Mono-crystalline or Polycrystalline Solar
 - Small footprint / High efficiency
- DURAlites
- Regulators
- Batteries

Mobile Inverter Product Suite



Modified Sine Wave
175W – 3000W



Pure Sine Wave
150W – 3000W
(12V & 24V)



Transfer switch



Battery Charger



Inverter
remotes



Inverter install kit

Inverter and Accessory Product Suite



Mobile Power Solutions for:

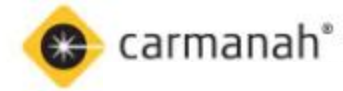
- Recreation vehicles
- Marine
- Utility & Fleet
- Long Haul Truck
- Mobile Office
- Emergency & Fire
- Military
- Automotive



Inverter usage for:

- Laptops
- Power tools
- Compressors
- Cell phone chargers
- Flat Screen TV's
- Stereos & DVD players
- Medical equipment
- Microwaves
- Small battery chargers
- Small appliances

Carmanah Summary



- Leadership in off-grid lighting and signaling
- Canada's largest solar grid tie solution provider
- Leader in mobile power systems for RV, utility, fleet and marine applications
- Positioned for growth in off-grid lighting
- Industry leading energy management technology
- Targeted geographic focus
- Customer focused portfolio
- Multiple routes to market



Thank You

***Setting the Standard for Solar
Innovation and Performance***