IDEAL POWER

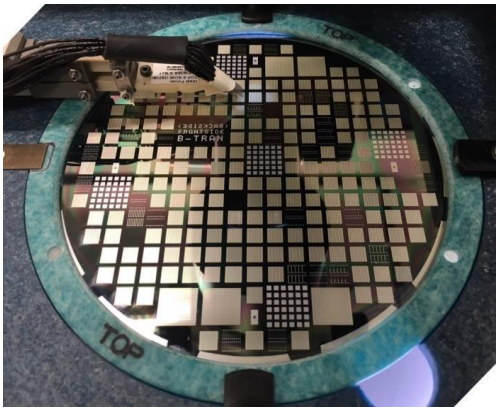
Fact Sheet

All price data as of 5.14.21

Exchange/Ticker	Nasdaq/IPWR
Share price	$8.73
52-Week range	$1.87 - $24.95
Shares outstanding	5.9 million
Options/Warrants	1.4 million
Market capitalization	$51.26 million
ADV	332,511

Investment Highlights

B-TRAN™



- ❑ Proprietary Semiconductor Architecture Technology in Early Stages of Market Disruption
- ❑ Solves Immediate Need in Large, Attractive, Growing Markets – EV, Renewables, Data Center/UPS
- ❑ Validated Electrical Performance
- ❑ Provides Significant Cost and Efficiency Improvements
- ❑ U.S. Navy (NAVSEA) Funded Demonstration Underway
- ❑ Sustainable Competitive Advantage; Substrate Agnostic – Silicon, SiC
- ❑ Broad Patent Estate – 62 Issued & 22 Pending
- ❑ Fabless Model, Strong Balance Sheet

Company Overview

- **September 2019** – sold PPSA™ business and technology to CE+T Energy Solutions
- **July 2020** – Signed 2-year $1.2 mm contract to partner with Diversified Technologies on demonstration of B-TRAN™ enabled circuit breaker for NAVSEA
- **August 2020** – Completed early warrant exercise transaction with certain Series A warrant holders, raising $2.5 mm in net proceeds
- **February 2021** – Completed public offering of 1,352,975 shares of common stock at $17/share; net proceeds of $21.2 mm to fund B-TRAN™ commercialization and development and general corporate and working capital purposes
- **March 2021** – Completed, in collaboration with The University of Texas at Austin's Semiconductor Power Electronics Center, development and fabrication of a new B-TRAN™ driver for use in customer sampling program
- **May 2021** – Released information sheet providing technical information on B-TRAN™, the new packaging design and driver, to serve as the core of the customer sampling program

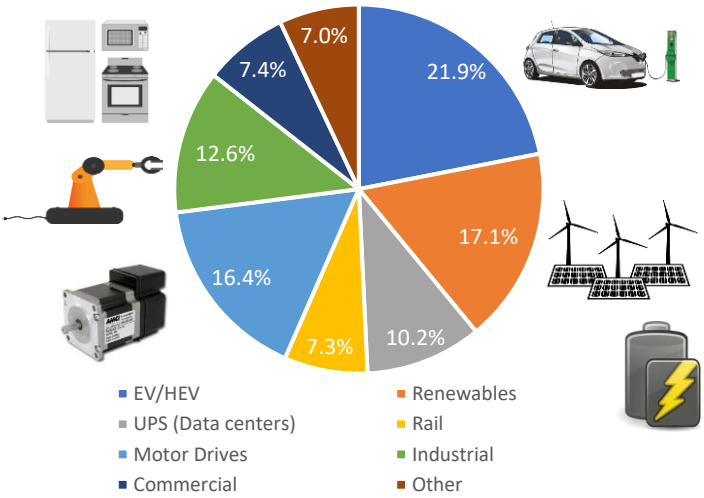
Analyst Coverage | Top Investors

The Benchmark Company

Dr. Lon Bell
AWM Investment Company (Special Situations)
Phoenix Investments and Finance
AIGH Capital Management

IGBT Market

$6B Market, 10.6% CAGR, going to $11B by 2026



- EV/HEV segment projected to drive the growth of the IGBT market
- Initial focus segments:
  - EV and EV charging
  - Data centers (UPS) and renewables

EMPOWERING THE FUTURE OF ENERGY

www.IdealPower.com

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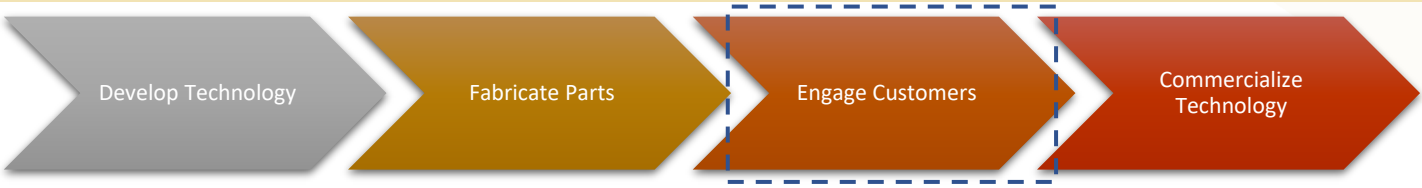
What is B-TRAN™?

- Bi-directional switching -> replaces 4 devices
- Address most power switching needs
- Architecture has 3 compelling advantages
  - Bi-directional switching
  - > 50% lower losses = lower user costs
  - Results in more compact thermal management
- Critical performance characteristics validated
- Sustainable competitive advantage: silicon now, silicon carbide next

Semiconductor power switches are critical components in power conversion for a wide variety of high efficiency and clean energy applications including motor drives, electric vehicles, renewable energy generation, and energy storage. Improving the efficiency and performance of semiconductor power switch components can have wide benefits, improving the economics and accelerating deployment of these applications.

Highly Focused Strategy



Ideal Power's IP

Region	Issued Patents	Pending Patents
United States	37	8
Foreign	25	14
TOTAL	**62**	**22**

Patents cover:

- B-TRAN™ device architecture
- Control methodologies and techniques
- Double-sided device manufacturing techniques
- Applications specific uses of B-TRAN™

Recent Developments

- Completed second major milestone under the NAVSEA program in partnership with DTI
- Released B-TRAN™ information sheet that provides technical information on B-TRAN™, the new packaging design and driver that serve as the core of Ideal Power's customer sampling program: https://www.idealpower.com/technology/
- Signed customer sampling agreements; actively engaged with automotive companies, electric vehicle (EV) system suppliers and renewable energy power converter manufacturers on evaluating B-TRAN™ for their applications
- In collaboration with both new and prospective customer sampling program partners, submitted multiple proposals under new round of solicitations from the Department of Energy for government funding, representing diverse applications including EVs, power converters for renewable energy and UPS systems for data centers
- Hired Vice Presidents of Business Development and Engineering, each with extensive experience in bringing semiconductor EV and HEV applications to market, to lead commercial and in-house B-TRAN™ technology development efforts

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