

IDEAL POWER

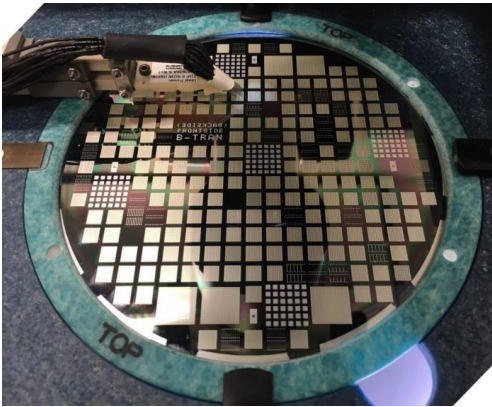
Fact Sheet

All price data as of 11.11.21

Exchange/Ticker	Nasdaq/IPWR
Share price	\$14.97
52-Week range	\$5.60 - \$24.95
Shares outstanding	5.9 million
Options/Warrants	1.5 million
Market capitalization	\$87.9 million
ADV	40,335

Investment Highlights

B-TRAN™



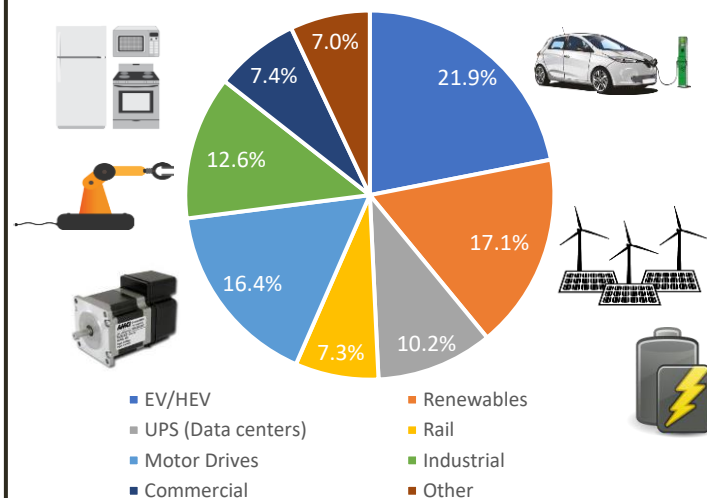
- ❑ Proprietary Semiconductor Architecture Technology on Cusp of Commercialization
- ❑ Solves Immediate Need in Large, Attractive, Growing Markets – EV, Renewables, Data Center/UPS, Solid State Circuit Breakers
- ❑ Validated Electrical Performance
- ❑ Provides Significant Cost and Efficiency Improvements
- ❑ Two Government Funded Demonstrations Underway - U.S. Navy (NAVSEA) and DoE (SBIR)
- ❑ Sustainable Competitive Advantage; Substrate Agnostic – Silicon, SiC
- ❑ Broad Patent Estate – 65 Issued & 23 Pending
- ❑ Fabless Model, Strong Balance Sheet

Company Overview

- **July 2020** – Signed 2-year \$1.2 mm contract to partner with Diversified Technologies on demonstration of B-TRAN™ enabled circuit breaker for NAVSEA
- **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 test & evaluation program
- **May 2021** – Released information sheet providing technical information on B-TRAN™ and new packaging and drivers designs to serve as the core of the customer test & evaluation program
- **July-October 2021** – Launched commercialization of B-TRAN™ through test/evaluation collaborations with leaders in electric vehicle (EV), uninterruptible power supplies (UPS) and power management for data centers and renewable energy markets

IGBT Market

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



Analyst Coverage | Top Investors

David Williams
The Benchmark Company

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

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



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What is B-TRAN™?

- Bidirectional switching -> replaces 4 devices
- Address most power switching needs
- Architecture has 3 compelling advantages
 - Bidirectional 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	38	6
Foreign	27	17
TOTAL	65	23

Patents cover:

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

Recent Developments

- Engaged with multiple potential customers on the testing and evaluation of B-TRAN™ in target electric vehicle (EV), uninterruptible power supplies (UPS) for data centers and power management for renewable energy markets - top 10 automaker, top 10 solar power conversion provider, an EV charging company, a global diverse power management leader as well as other commercial businesses and universities.
- Completed multiple major milestones under the NAVSEA program and first milestone in SBIR project in partnership with DTI.
- Partnering with DTI on second project, a Phase I SBIR grant from DOE – DTI and Ideal Power will design, build, demonstrate a low-loss B-TRAN™ driven SSCB switch modules to interrupt AC power and confirm efficiency and speed of the B-TRAN™ in AC operation. If awarded Phase II grant, DTI/Ideal Power will build/ test full 50 MW, 13.8kV SSCB.
- 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 test and evaluation program: <https://www.idealpower.com/technology/>
- Building out marketing and technology teams – 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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