

# Mi-BEAM

MODULAR INTELLIGENT-BIDIRECTIONAL ENERGY AMPLIFIED

**Cal Power**

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Global Price (USD)*	\$13,300	\$21,700	\$30,000
Power (kW)	12kW	25kW	37kW
Voltage (V)	Maximum Current (A)		
600	50	100	150
1500	–	50	50
2000	–	50	50

\*Global pricing for base units without options, Incoterms Ex Works (EXW) San Diego, California, USA.

## High Performance, Modular Bidirectional, Regenerative Programmable DC Power System

### PERFORMANCE. POWER. SAFETY.

The Sorensen™ Modular Intelligent-Bidirectional Energy AMplified (Mi-BEAM) Series is the newest addition to the AMETEK Programmable Power portfolio of high-power testing solutions. The new **Mi-BEAM Series** features full DC source and sink capabilities with power levels from 12 kW up to 37 kW. The **Mi-BEAM Series** is fully scalable up to 1.2 MW with parallel systems. The available voltage ranges of 600V, 1,500V and 2,000VDC in a 4U rack height chassis provide full power up to +/-150A within a single system.

### FEATURES

- ▶ Complete solution – battery test, simulation & solar array simulator software included
- ▶ Highest power density up to 37 kW in 4U rack height (9.25 kW/U)
- ▶ Fastest and cleanest power available
  - Fastest transient response
  - Low output ripple and noise
- ▶ Universal 3-Phase AC Input accepts 180 VAC to 528 VAC
- ▶ Longest manufacturer-based reliability guarantee, 5-year warranty
- ▶ Parallel system power up to 1.2 MW
- ▶ Output voltage up to 2,000 V
- ▶ Bidirectional output current up to ±150 A, up to ±4,800A in parallel
- ▶ True extended autoranging output
- ▶ Regenerative to 95%
- ▶ Color touch panel user interface
- ▶ Seamless transition between source and sink
- ▶ Built-in islanding detection

### APPLICATIONS

- Battery simulation
- Battery testing (charge/discharge)
- Electric powertrain testing
- Fuel cell testing
- Solar inverter testing

**Sorensen™**

**AMETEK®**  
PROGRAMMABLE POWER

[programmablepower.com](http://programmablepower.com)

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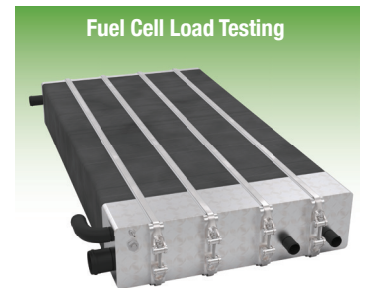
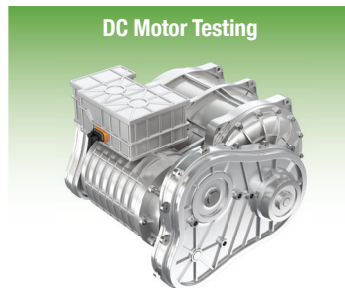


## CONTROL VIA FRONT PANEL TOUCHSCREEN AND DIGITAL OR ANALOG CONTROL INTERFACES



The **Mi-BEAM Series** can be operated from the intuitive, front panel touchscreen that enables the user to easily setup, control and monitor the Output Programming Parameters, Supervisory and Set Point limits, Measurements, and System Settings. Additionally, a variety of standard communication control interfaces are available including; LAN, USB and RS-232. Optional IEEE-488.

The **Mi-BEAM Series** is designed for testing today's complex, high power electronics for the automotive, energy storage, industrial, and aerospace markets in a variety of applications. This platform covers all test needs through the product life cycle from advance research and development (R&D), to design validation, and production test requirements.



### COMMUNICATION & CONTROL INTERFACES

#### Standard Communication Interfaces

- ◆ LAN (10 BASE-T and 100 BASE-T)
- ◆ USB 2.0
- ◆ RS-232C
- ◆ SCPI Compliant Command Set
- ◆ IVI-C, IVI-COM and LabVIEW Drivers
- ◆ Virtual Panels GUI

#### Optional Communication Interfaces

- ◆ Isolated Analog Programming

### FEATURED EQUIPMENT CHARACTERISTICS

#### Standard Modes of Operation

- ◆ Bidirectional Mode (bi-DIR)
  - CV, CC, CP, Series Resistance (CV Mode only), CV/CC, CC/CP, CV/CP, CV/CC/CP
- ◆ Source Mode (DC source only)
- ◆ Electronic Load Mode (eLoad)
  - Current, Power & Resistance Programming
- ◆ Battery Simulator Mode (BATSIM)
  - Charge/Discharge
- ◆ Battery Test Mode (BATTEST)
- ◆ Photo Voltaic Simulator Mode (PVSIM)
- ◆ Drive train testing with V-I characteristics for drive cycle tests
- ◆ Voltage/Current Ramps
- ◆ List/Waveform Generation
- ◆ Remote Inhibits, Input/Output Triggers & Monitor Signals
- ◆ Firmware Updates via LAN
- ◆ Parallel Interface

Note: All specifications subject to change without notice.

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