



Leading AC + DC Test Solutions



Test Everything from the Vehicle to the Grid

PPST's AC + DC systems offer complete test solutions with best in class performance, intelligence, and ease of use.

EV Test Solutions across R&D, Production, Depot, and Repair



Regenerative Test Solutions

- Battery Test Systems, Emulators
- Bidirectional DC Sources
- AC/DC Sources & Loads
- Grid Simulators
- Systems Solutions



EV Batteries, Motor Drives



EV Charging, OBC, EVSEs



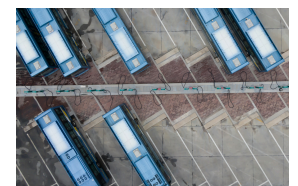
V2G, Energy Storage



EVs, Mid to Heavy Duty E-Trucks, Commercial



School Buses, Public Transportation



Depots, Fleets



Modular, Scalable Power

- Right-sized power, add more power later
- Modular configurations for ultimate flexibility
- Redundancy



Flexible Mixed Modes

- Battery testing, Battery emulation or Bidirectional power supplies can be accomplished via constant voltage, current, power and resistance



Widest Operating Envelope

- Constant Power offers seamless testing over low and high-voltage ranges.
- Battery test emulation systems use auto-ranging.



Clean Design & Built-in Safety

- Built-in galvanic isolation
- Safety protection limits.
- Simplified set up saves time



Highest Current Availability

- Extra current at lower voltage.
- No over or under-sizing the power source
- Reduce the need for additional capital



Multiple Control Options

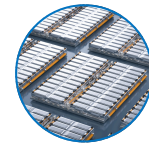
- Remote panel control
- Labview IVI drivers, SCPI, ModBus, etc.
- Several communication interfaces
- Third-Party Software
- Pacific Power SmartSource Suite

Battery Test & Battery Emulation

Testing battery modules and packs require advanced bidirectional dc power sources. Applications include drive cycle, life cycle, performance, charge/discharge, BMS development, etc.

Battery Testers, Battery Emulators

- EA BT 20000 / PUB 10000 Series
 - Scalable 1.5kW up to 3.84MW
 - from 10V to 3000V



Battery Testers / Emulators

EV Modules & Packs

Electric Powertrain, Motor, Inverter

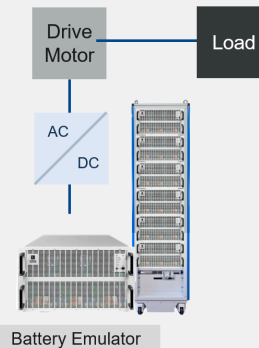
Regenerative, bidirectional DC power sources are ideal for testing motor drives and managing back-EMF safely.

Battery emulation speeds up testing by up to 70%, ensures repeatable results, improves safety, and enables flexible simulation of any state of charge or resistance—including corner cases.

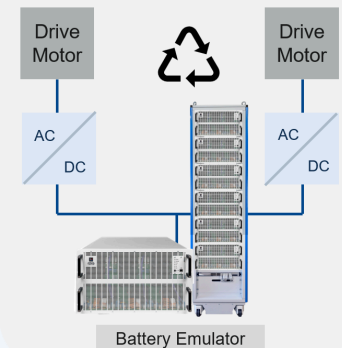
Bidirectional DC Power Sources, Battery Emulators

- EA PSB/PUB 10000 Series
 - Scalable 1.5kW up to 3.84MW
 - from 10V to 3000V

Single-Ended DC Bus Approach



Common DC Bus



EV Charging, OBC, EVSE, V2G, ESS

Regenerative Grid Simulators and Battery Emulators are ideal for charging applications to emulate the utility grid or high power batteries, safely. Test to EV and grid-compliance standards.

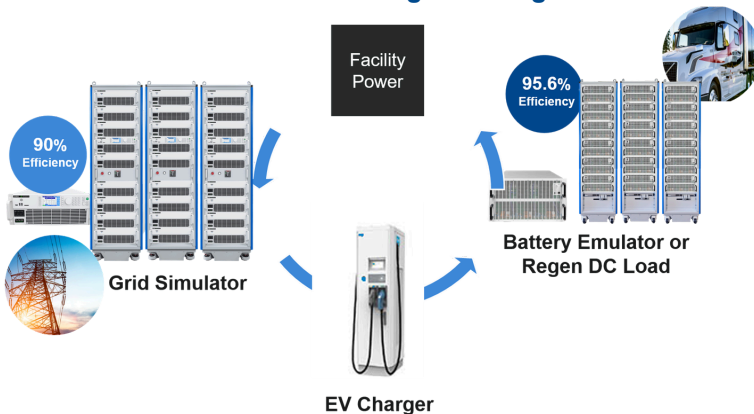
Bidirectional DC Power Sources, Battery Emulators

- EA PSB/PUB 10000 Series 1.5kW up to 3.84MW

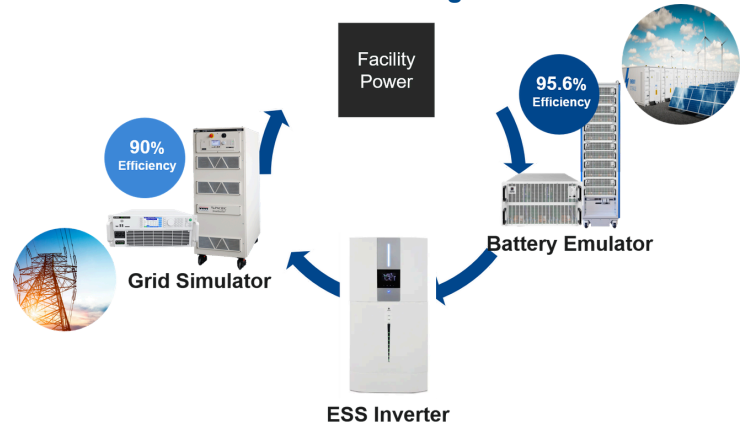
Regenerative Grid Simulators

- RGS / GSZ Series 6kVA /kW up to 1.294MVA / MW

EV Fast Charger Testing



ESS Testing



DC-DC Converter

High-performance battery emulators and DC loads provide repeatable testing of DC-DC converters to verify functionality and safety under dynamic load conditions.

Battery Emulator or Regenerative DC Load

- EA PSB/PUB or ELR 10000 Series
 - 1.5kW up to 3.84MW from 10V to 3000V

