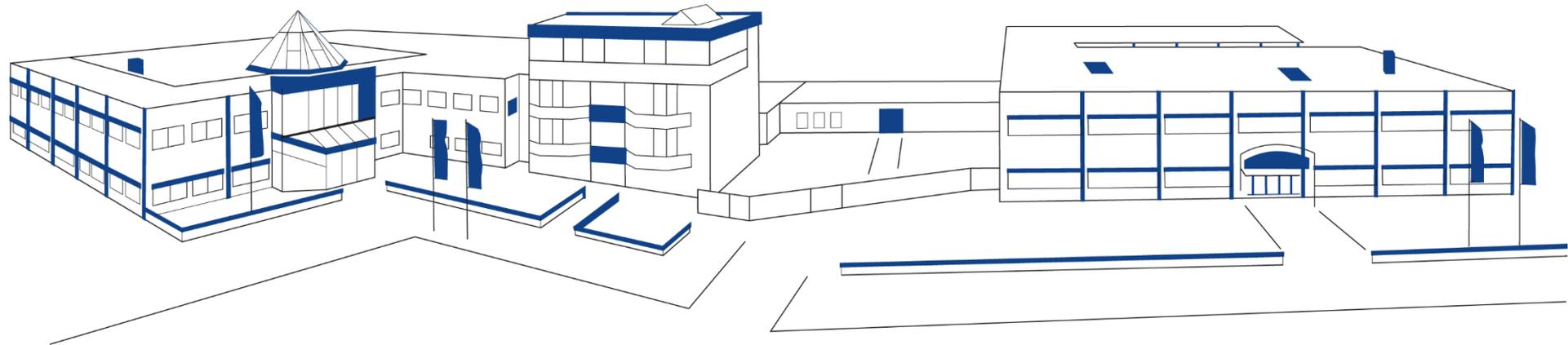


DC Programmable Power News EA Elektro-Automatik Germany New 30kW Products under preparation



Power Supply EA-PSI 10000 30kW 4U



Power Supply EA-PSI 10000 30kW 4U

| | | | | | | | | |
|----------------|--|--------------------------|----------|----------|---|------------|------------|------------|
| Output Power | 30kW | | | | | | | |
| Output voltage | 0...80V | 0...200V Pre-liminary | 0...360V | 0...500V | 0...750V | 0...1.000V | 0...1.500V | 0...2.000V |
| Output current | 0...1.000A | 0...450A | 0...250A | 0...180A | 0...120A | 0...90A | 0...60A | 0...40A |
| Mains | 340...528VAC 3-phase | | | | | | | |
| Housing | 19" 4U x 660mm | | | | | | | |
| Fittings | <ul style="list-style-type: none"> TFT Touch display and encoder Operation modes CV, CC, CP, CR Controls identic to PSB 9000 3U New GUI (graphic user interface) New Share-Bus, galvanically isolated | | | | <ul style="list-style-type: none"> Function generator Anybus plug-in interface modules LAN / USB / Analogue interface Digital regulation, U / I / P / R | | | |
| Delivery plan | Prototypes: November 2018 | | | | Series: 2Q of 2019 | | | |
| Status | 60% | | | | | | | |

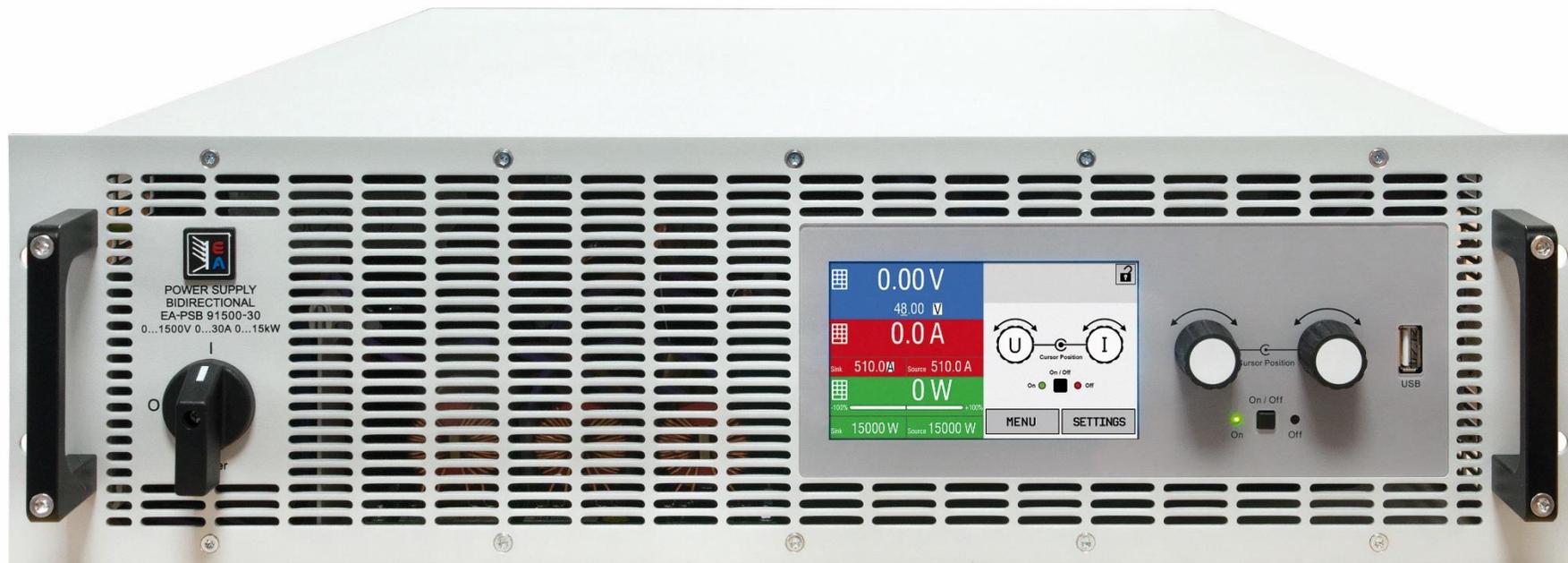
Regenerative Electronic Load EA-ELR 10000 30kW 4U



Regenerative Electronic Load EA-ELR 10000 30kW 4U

| | | | | | | | | |
|---------------|--|--------------------------|----------|----------|--|------------|------------|------------|
| Input Power | 30kW | | | | | | | |
| Input Voltage | 0...80V | 0...200V Pre-liminary | 0...360V | 0...500V | 0...750V | 0...1.000V | 0...1.500V | 0...2.000V |
| Input current | 0...1.000A | 0...450A | 0...250A | 0...180A | 0...120A | 0...90A | 0...60A | 0...40A |
| Mains | 340...528VAC 3-phase | | | | | | | |
| Housing | 19" 4U x 660mm | | | | | | | |
| Fittings | <ul style="list-style-type: none"> TFT Touch display and encoder Operation modes CV, CC, CP, CR Controls like PSB 9000 3U New GUI (graphic user interface) New Share-Bus, galvanically isolated | | | | <ul style="list-style-type: none"> Function generator Anybus plug-in interfaces LAN / USB / Analogue interface Digital regulation, U / I / P / R | | | |
| Delivery plan | Prototypes: November 2018 | | | | Series: 2Q 2019 | | | |
| Status | 60% | | | | | | | |

Bi-directional Power Supply EA-PSB 10000 30kW 4U



Bi-directional Power Supply EA-PSB 10000 30kW 4U

| Output/Input Power | +-30kW | | | | | | | |
|----------------------|--|--------------------------|-----------|-----------|--|------------|------------|------------|
| Output/Input voltage | 0...80V | 0...200V Pre-liminary | 0...360V | 0...500V | 0...750V | 0...1.000V | 0...1.500V | 0...2.000V |
| Output/Input current | +0...1.000A | +0...450A | +0...250A | +0...180A | +0...120A | +0...90A | +0...60A | +0...40A |
| Mains | 340...528VAC 3-phase | | | | | | | |
| Housing | 19" 4U x 660mm | | | | | | | |
| Fittings | <ul style="list-style-type: none"> TFT Touch display and encoder Operation modes CV, CC, CP, CR Controls like PSB 9000 3U New GUI (graphic user interface) New Share-Bus, galvanically isolated | | | | <ul style="list-style-type: none"> Function generator Anybus plug-in interfaces LAN / USB / Analogue interface Digital regulation, U / I / P / R | | | |
| Delivery plan | Prototypes: November 2018 | | | | Series: 2Q 2019 | | | |
| Status | 60% | | | | | | | |

Introduction EA Battery Simulator

Basic functions and areas of application:

- Battery simulation and emulation (via PC-Software)
- Simulation of the connectivity behaviour of real batteries in HiL (hardware-in-the-Loop) test systems
- Suitable for the usage with bi-directional power supply series EA-PSB 9000
- For fast, economic and reproducible hardware tests
- Outstanding advantages for the usage in E-mobility (EV) environment (simulation of any battery condition within the shortest time-> R & D optimisation)

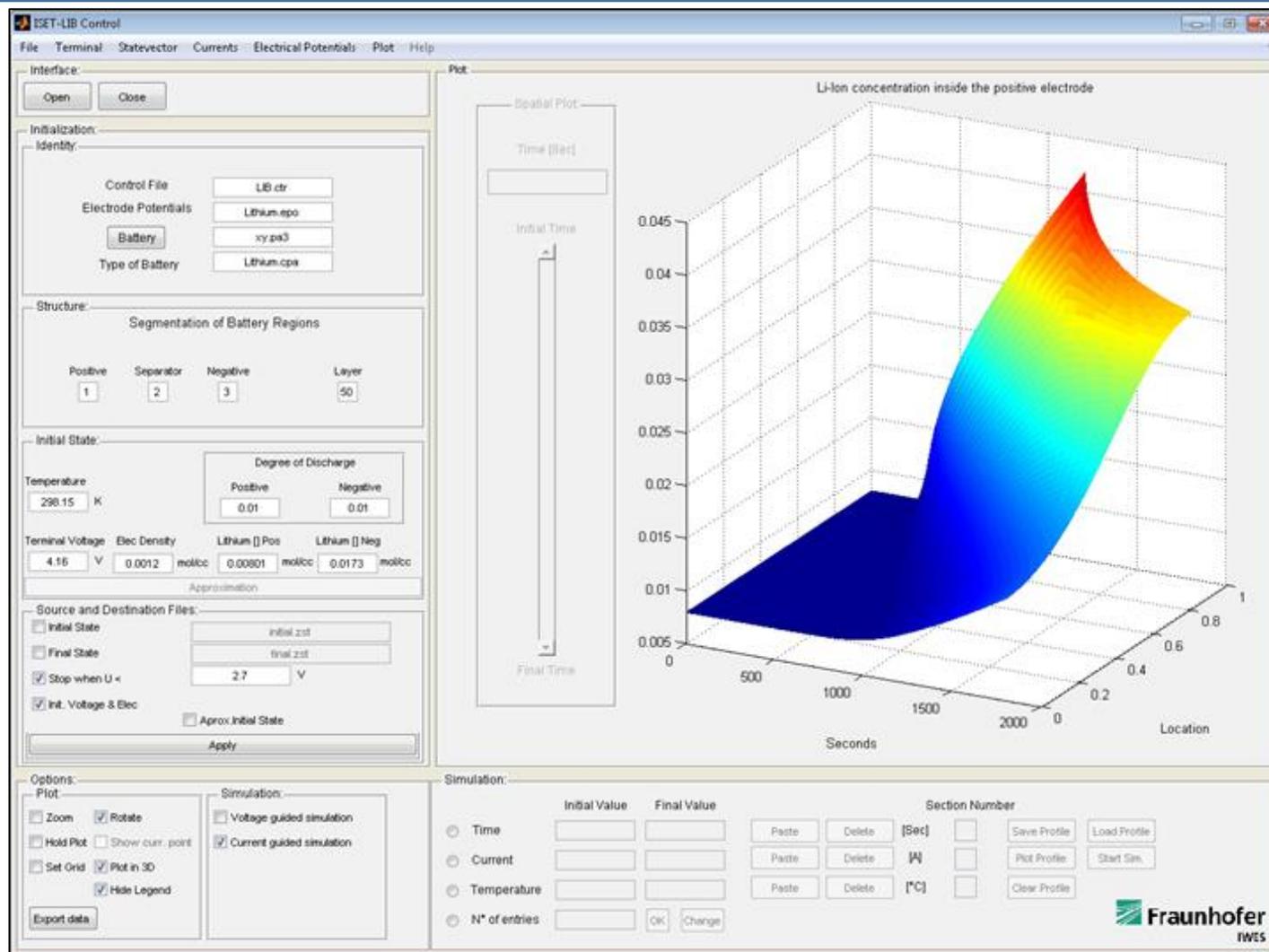
Further important basic functions:

- Easy to scale
- High flexibility
- Contains profound knowledge and documentation on internal „real-life“ battery conditions
- Simulation of Worst-Case-Szenarios

Functions of the EA Battery Simulator

- (Fast) Configuration of Temperatur, battery State of Charge (SOC), battery status of health (SOH) and many more
- Simulation of Aging Processes
- Simulate thermal interdependences inside the Battery Pack
- Enables to illustrate a large variety of battery geometries and cell arrangements
- HiL-Interfaces: EtherCat, CAN, RS232, Ethernet
- Compatible to MATLAB / SIMULINK
- Suitable for an integration into Real-time modules
- Simulation of following battery types:
 - Lead-Acid Batteries
 - Lithium-Ion Batteries
 - Lithium-Sulfate Batteries
 - Solid-state body battery
 - Redox-Flow Batteries (and other battery types upon request)

View into the design of the EA Battery Simulator



Features:

- Transparent licensing system (Sublicensing under EA brand)
- Specific Installation Software with License Dongle
- Individuell Adaptation to EA PSB 9000 units
- New feature under preparation: Change of specific basic parameters of a battery