



PSD1000 SERIES

ELECTRICAL DRIVE & AUTOMOTIVE ENERGY SYSTEM

The PSD1000 systems are bidirectional DC power supplies for automotive testing and simulation applications. They provide a scalable output power up to 440kW. The output voltage can be set in the range 200-1000V, the maximum output current is up to 2000A.

Since the current flow can be in both directions, the system can be operated as a source or a load. It allows a wide variety of loads with capacitive, ohmic or inductive characteristics to be operated. Control modes are constant voltage, constant current or constant power. Output voltage, current and power are measured with an accuracy of 0.2%.

The systems is operated by an integrated touch display which offers extensive setting options. Remote control is possible via Ethernet.

APPLICATIONS

- Battery simulation
- Inverter / motor testing
- Battery testing / cycling
- On-board network simulation
- ECU testing and more

KEY FEATURES

- Power up to 440kW
- Voltage up to 1000V
- Current up to $\pm 2000A$
- Voltage and current control
- Touch display
- Ethernet remote control
- Isolated Output
- Integrated safety system
- Output disconnection

KEY BENEFITS

- Low loss - $>97\%$ Efficiency
- Bidirectional
- Small size

TECHNICAL SPECIFICATIONS

ELECTRICAL DRIVE & AUTOMOTIVE ENERGY SYSTEM - PSD1000 SERIES

Model	PSD1100	PSD1200	PSD1300	PSD1400
Output Power	± 150kW	± 220kW	± 330kW	± 440kW
Output Voltage	200V – 1000V			
Output Current	± 500A	± 1000A	± 1500A	± 2000A
Efficiency	> 97%			
Input Voltage	3AC 380-690V 50-60Hz			
Input Current	180A	360A	540A	720A
Measurements	Voltage, current, power, accuracy 0.2%			
Protection	Overcurrent, overvoltage, overtemperature			
Safety Features	Emergency stop, safety Interlock, output contactor			
Weight	411kg	727kg	1043kg	1359kg
Dimensions WxHxD in mm	600x2100x800	1200x2100x800	1800x2100x800	2400x2100x800

SOLFAS TECHNOLOGIE GMBH

We specialize in the development and distribution of test systems, power supplies and measuring instruments. Experts in electrical testing and automation, our company offers a broad range of high-performance full-service testing solutions and measuring instruments. We provide clients in the automotive, aerospace, energy and traditional industry sectors with the equipment they need to test high power components, such as chokes, transformers and electric motors.