

900 EX

Advanced high power test system



Key Features:

- Industry standard for high performance testing
- Flexibly test virtually any DC source, load, or battery storage system
- Enhanced error detection & fault correction
- Test faster and more efficiently > Save time & money
- Regenerative to the grid > Save energy and money
- More accurately represent real world conditions >
- More predictive results
- Two channels for flexibility in testing/simulating multiple devices with a single machine
- Open communication protocol allowing easy integration into any test set-up
- Self-contained cooling system requiring no external cooling system
- Control Modes: Voltage, Current, Power, Resistance
- Voltage with Internal Resistance

Powering up to 1MW

The 900 EX is ideal for testing and emulating energy storage and drive train components. The increased performance (rise time/slew rate) and increased accuracy make the 900 EX ideal for applications like Heavy Industrial (ships, trains, trucks, and aircraft), Military (hybrid drives and aircraft launch systems), Power Electronics (solar panels, inverters), and Hardware in the loop testing. Digital controls protect critical systems and components, and the system can self-adjust to external environmental events like unstable power sources. The bi-directional system can operate at $\pm 250\text{kW}$, or combined, it can scale to $\pm 1\text{MW}$.

The 900 EX, with new LCD touchscreen display, is an intelligent system that will give you the accuracy, speed, and control to add value to your tests.

Technical specifications

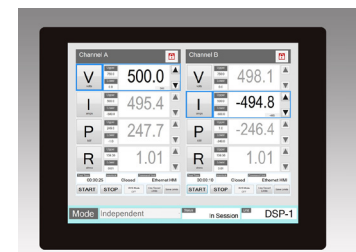
	Independent	Parallel	Multi-unit
Voltage	900 V	900 V	900 V
Current	500 A	1,000 A	4,000 A
Power	250 kW	250 kW	1,000 kW
Command latency	250 μ s (Ethernet)		
Energy recovery efficiency	93%		
Measurement error-voltage	\pm 0.05 V or \pm 0.05% of reading		
Measurement error-current	\pm 160m A or \pm 0.05% of reading		
Rise time voltage - step (0-500v)	3 ms*	7 ms*	7 ms*
Rise time current - step (0-300a)	0.5 ms*	0.6 ms*	0.9 ms*
Slew rate voltage	171 V/ms	89 V/ms	76 V/ms
Slew rate current	769 A/ms	1,282 A/ms	1,935 A/ms
Slew rate power	274 kW/ms	500 kW/ms	833 kW/ms
Tracking bandwidth voltage	50 Hz (500 V) 75 Hz (250 V)	50 Hz (500 V)	50Hz (500 V)
Tracking bandwidth current	175 Hz (500 A)	150 Hz (700 A)	50Hz (700 A)
Tracking bandwidth power	100 Hz (150 kW)	150 Hz (250 kW)	50Hz (250 kW)
Output data sampling	Fiber to Ethernet 10 ms CAN 10 ms RS-232 50 ms		
Input voltage options (+10%/-15%)	3 Phase, 380, 400 and 480 VAC		
Current draw	410, 389 and 324 A respectively		
Weight	6,063 lbs. (2,750 kg)		
Dimensions (L x W x H)	72 x 39 x 76.5 in. (183 x 99 x 194 cm)		

Operating Range

Configuration	Voltage (Vdc)	Current (Adc)	Power (kW)
Independent	+8 to +750	-500 to +500	-250 to +250
	+751 to +825	-400 to +400	-225 to +225
	+826 to +900	-300 to +300	-200 to +200
Parallel	+8 to +750	-1000 to +1000	-250 to +250
	+751 to +825	-800 to +800	-225 to +225
	+826 to +900	-600 to +600	-200 to +200



The 900 EX can run all standard drive cycle simulations, including FUDS, SFUDS, GSFUDS, DST, ECE-ISL, etc.



Touchscreen HMI for local control & easy identification of operating state.



PTS Brochure



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