1000 kW Load Bank

Our LLLR-1000 model is developed to test and validate performance for an energy source of up to 1000 kW

Operating principle

Our load banks apply electrical power (Water) to test your electrical and thermal infrastructures in clean rooms.

The tests ensure safety, thermal performance and long-term reliability.

The load levels are segmented into switchable steps, allowing precise adjustment of the applied power and the execution of test sequences.

Technical Specifications

Load Type	Resistive
Rated Power	1000 kW
Rated Voltage	400 Vac +/- 5% 3-phase
Power Factor	1
Frequency	50 Hz
Resolution	5 kW

Height	2234 mm
Depth	2137 mm
Length	1050 mm
Weight	1800 kg
Cooling	Liquid
Handling	Fork pockets + casters

Technical Architecture

The clean architecture of our load bank simplifies its installation and use.

Design	
Use	Indoor
Frame	Galvanized steel
Paint	Grey RAL7035 80µm
Handling	Handle

Resistive elements	
Technology	Tubular (Liquid)
Resistive Alloy	Nickel-chromium
Element tolerance	+/- 5%
Resistive elements	Resistive elements

Liquid cooling system	
Water flow	1.5 L / min / kW
Liquid Delta (K)	Adjustable from 10 to 20
Water connection	Stainless steel 316 DN100 (2 inlets / 2
Protections	
Resistive elements	Fuse protection
Safety devices	Temperature sensor
	Pressure sensor

Liquid cooling system	
Water flow (Full Power)	2000 L / min
Max pressure (Bar)	5
Capacity in litres	300

Control system

A simple interface for ease of use.

Control system	
Power ramp-up	3-pole AC contactors
Supervision	**Echo-A (Advanced)**
HMI	7” touchscreen
Manual mode	☒
Cycle mode	☒
Measurements (U, I, P, F, pf)	☒
Data logging	☒
Ballast mode	N/A
Communication ModBus	Option
Remote control	Control cable 100 m max

Connections

The clean architecture of our load bank simplifies its installation and use.

Connections	
Liquid section	18 POWERLOCK 800A sockets
Auxiliary	1 socket 32A 5G16mm^2

Environmental Characteristics

Capable of operating in all environments.

Operating T°C	0°C / +40°C
Storage T°C	-20°C / +45°C
Ambient Humidity	95% relative (1)
Operating altitude	<1000 m

IP electrical enclosure	IP 43
IP air duct	IP 20

(1) Relative humidity, non-condensing