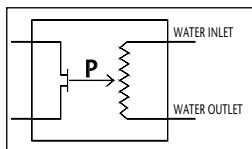


LW 5100 Series

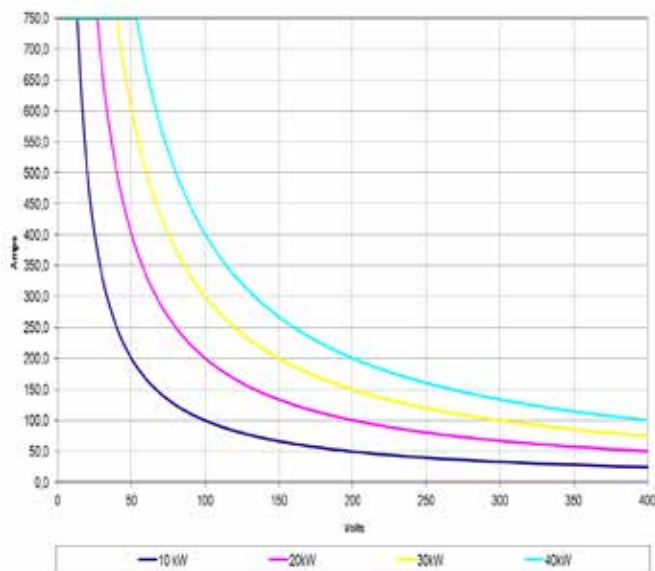
This liquid cooled load allows a wide range of operation up to 400V/750A. The small size provides high power density combined with ease of use. Wherever heat and noise of fans is unacceptable, this load offers a perfect solution, e.g. laboratory or test rooms. Due to its capability to connect modules in parallel, the power rating can be increased up to 40kW, controllable by one interface.



* Introducing Gen 2 - User Friendly Touch Panel & Enhanced Functionality

Key Features:

- Regulation of voltage, current, power and resistance
- Wide operating range up to 400V / up to 750A with one module
- Paralleling of up to 4 modules for higher load capacity
- Reduced water consumption depending on load power and water inlet temperature
- CAN Bus interface for control, programming and monitoring
- Protected against thermal overheating
- Determination of the capacity of batteries in Ah (battery tester)
- "In service" test of batteries considering actual load currents
- Adjustable constant voltage and current regulation
- Adjustable constant power regulation
- Analog monitoring of V, I, P (selectable 0-10V, 4...20mA, 0...20mA)
- Digitally controlled Master / Slave operation
- Selectable and programmable waveforms for I and P
- Automatic slave detection with automatic detection of the physical order within the rack system
- USB host for firmware update
- USB device for control, programming and monitoring by USB connection
- Fast programming by touch screen keypad (soft key) and rotary encoder
- Programming of current and power by BNC-input



Higher Power load systems available >40KW

Modular System:



1 x LW5100	750 Amps Module consisting of one cabinet & one module
2 x LW5100	1500 Amps Module consisting of one cabinet & two modules
3 x LW5100	2250 Amps Module consisting of one cabinet & three modules
4x LW5100	3000 Amps Module consisting of one cabinet & four modules

Specifications:

Input

Voltage range	12 ... 400VDC
Load current	1 ... 750A
Load power	max. 10kW
Auxiliary input voltage	100-240V AC/ 2A, 50/60Hz
Master-Slave configuration	Expandable up to 40kW Digitally Controlled (Auto)
Interface	CAN Bus

General

Cooling liquid temperature	up to +35°C
Cooling liquid pressure	up to 6 bar
Cooling liquid flow rate	Depending on load power and cooling liquid temperature at the liquid inlet, up to 30l/min
Operating temperature	0... +50°C optional: -20 to +50°C
Storage temperature	-20 to +70°C optional: -30 to +80°C
Humidity	up to 95% RH, non-condensing
Safety / Construction	acc. to EN 60950-1 / EN 50178
Protection category	IP20 acc. to EN 60529
Connectors	- terminal, bolts, BNC, bus bars, - USB for control and firmware

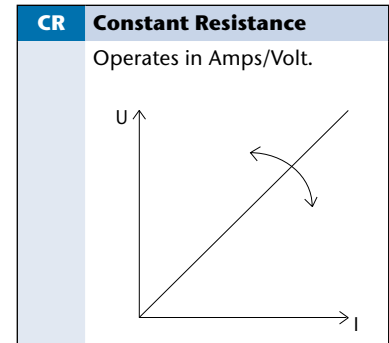
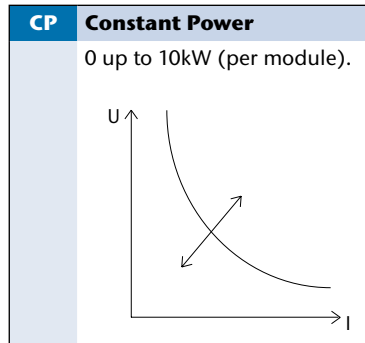
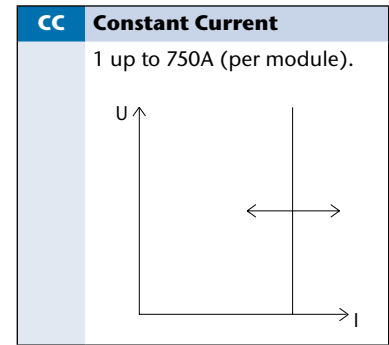
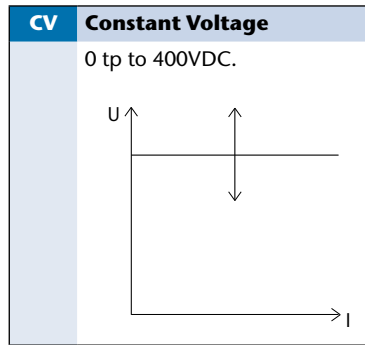
Options

- extended temperature range

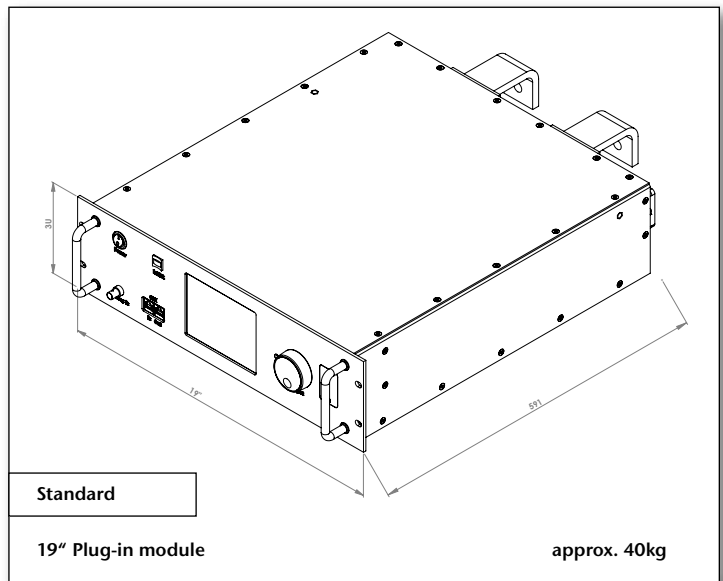
Control

Regulation	- Constant Voltage (CV) - Constant Current (CC) - Constant Resistance (CR) - Constant Power (CP)
Adjustment / Control	- CV, CC, CR, CP programmable by touch panel and dial on the front plate, and CAN - Inhibit selectable by push-button on the front plate, and CAN
Modulation	- Modulation of voltage, current, power by using internally stored waveforms. Offset, amplitude and frequency adjustable. - Selectable and programmable waveforms for I and P
Display	Indication of actual values like voltage, current, resistance, power, temperature; status by LCD display
Monitoring	Monitoring of actual values like voltage, current and power by 0...10V, 4...20mA or 0...20mA signal and CAN
Control of external linear valves for liquid cooling	0...10V / 10mA max.
Parallel operation	Power increase by paralleling up to 4 units (40kW)

Load Characteristics:



Mechanics:



Schaefer, Inc.

45 South Street
Hopkinton, MA
01748

Phone: 508-435-6400
Fax: 508-435-6401
sales@schaeferpower.com
www.schaeferpower.com

