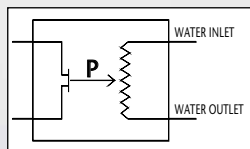


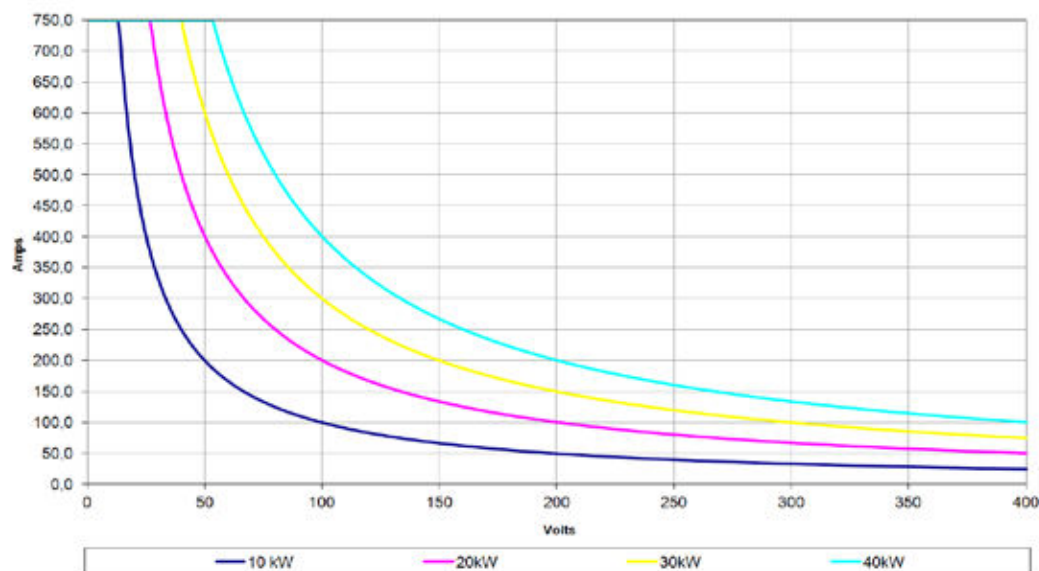
LW 5100 Series

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.



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 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 by an additional current probe input



Modular System:



| | |
|-------------------|---|
| 1 x LW5100 | 60 Amps Module consisting of one cabinet & one module |
| 2 x LW5100 | 120 Amps Module consisting of one cabinet & two modules |
| 3 x LW5100 | 180 Amps Module consisting of one cabinet & three modules |
| 4 x LW5100 | 240 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 |
| 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, bars |

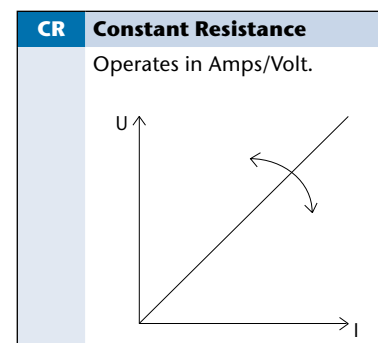
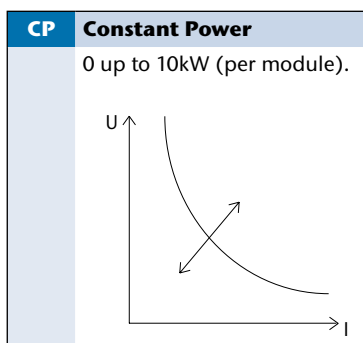
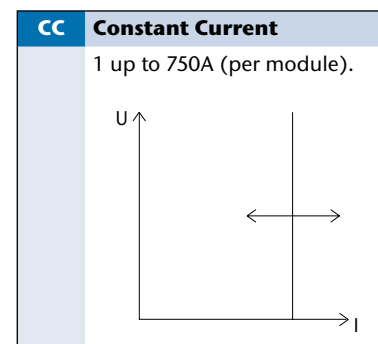
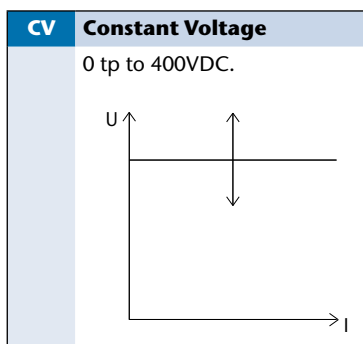
Options

- remote control unit
- extended temperature range

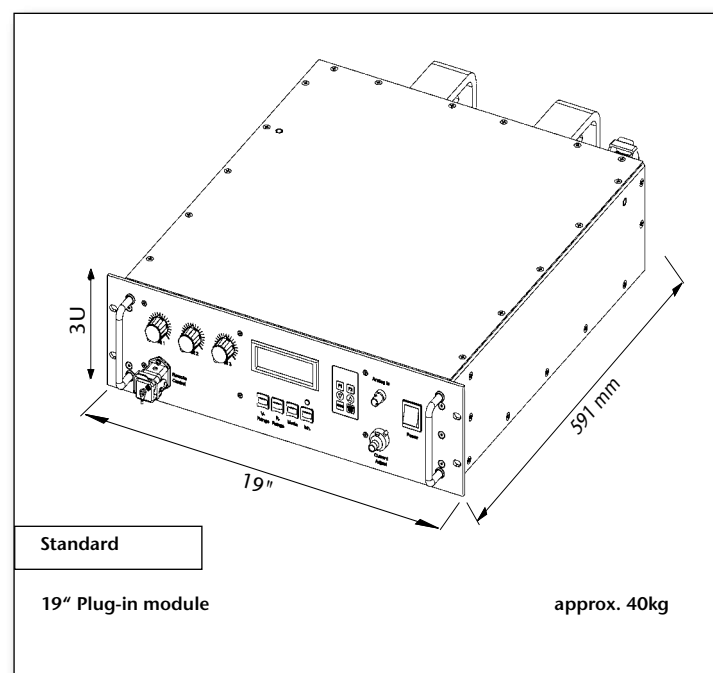
Control

| | |
|--|--|
| Regulation | - Constant Voltage (CV) - Constant Current (CC) - Constant Resistance (CR) - Constant Power (CP) |
| Adjustment / Control | - CV, CC, CR, CP programmable by potentiometers on the front plate, external control unit (remote control) and CAN - Inhibit selectable by push-button on the front plate, external control unit (remote control) and CAN |
| Modulation | Modulation of voltage, current, power by using internally stored waveforms. Offset, amplitude and frequency adjustable. |
| 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:



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