

# PLI Series Electronic Loads Multi-Range Models

Variants with up to 4 "real" current ranges for setting and measurement enhance the proven PLI series. Ranges are graduated with a factor of 10.

This means that even lowest currents can be set and measured with high precision and resolution.

## Basic Operating Modes

CC, CV, CR, CP

## Combined Operating Modes

CC+CV, CR+CC+CV, CP+CC+CV, CV+CC

## Voltage Classes

80 V, 120 V, 300 V, 800 V

## Current Ranges

0.04 A lowest, 180 A highest

## Power Ranges

4.8 W lowest, 1,500 W highest

short-term power up to double continuous power

## Standard Interfaces

Ethernet + USB + RS-232, CAN, I/O port

## Optional Interfaces

GPIB, galvanically isolated I/O port



## Features

- High setting and measuring resolution by several current, power and resistance ranges
- Temporary power overload capacity, depending on model
- Intuitive operation by graphical user interface
- Quick operation by shortcuts
- MPPT Function optional
- Energy storage test
- Internal resistance measurement
- Protections for overcurrent and undervoltage
- Dynamic function with synchronized data logging
- SCPI programming with measurement function
- USB flash drive as measurement data memory
- Electronic protection
- Analog monitor outputs for voltage and current
- Analog control input
- Digital input and programmable control output

## Accessories/Extras

2 free calibrations: at delivery and within warranty period

## Industries

- Automotive
- Rail industry
- Renewable energies
- Research & development
- Industry in general
- Aerospace
- Medical technology
- Military

## Application fields

- Control units
- Converters (DC/DC, ...)
- Electromechanics (fuses, relays, ...)
- Electronic components
- Energy storage devices (batteries, fuel cells, ...)
- Generators (PV modules, alternators, ...)
- Motors
- Power electronics
- Power supplies
- Sensors

Model (Order number)	PLI508MR4	PLI512MR4	PLI530MR3	PLI580MR3	PLI1008MR4	PLI1012MR4
Voltage range	80 V	120 V	300 V	800 V	80 V	120 V
Current ranges	0.06 A 0.6 A 6 A 60 A	0.04 A 0.4 A 4 A 40 A	0.16 A 1.6 A 16 A	0.06 A 0.6 A 6 A	0.12 A 1.2 A 12 A 120 A	0.08 A 0.8 A 8 A 80 A
Resistance ranges	33.4 Ω ... 14.3 kΩ 3.34 Ω ... 1.43 kΩ 0.34 ... 143 Ω 0.034 ... 14.3 Ω	50 Ω ... 32.2 kΩ 5 Ω ... 3.22 kΩ 0.5 ... 322 Ω 0.05 ... 32.2 Ω	12.5 Ω ... 20.1 kΩ 1.25 Ω ... 2.01 kΩ 0.125 ... 201 Ω	33.4 Ω ... 143 kΩ 3.34 Ω ... 1.43 kΩ 0.34 Ω ... 1.43 kΩ	16.6 Ω ... 7.16 kΩ 1.66 ... 716 Ω 0.16 ... 71.6 Ω 0.016 ... 7.16 Ω	25 Ω ... 16.1 kΩ 2.5 Ω ... 1.61 kΩ 0.25 ... 161 Ω 0.025 ... 16.1 Ω
Power ranges continuous / short-time	4.8 W / 4.8 W 48 W / 48 W 200 W / 200 W 500 W / 1000 W	4.8 W / 4.8 W 48 W / 48 W 200 W / 200 W 500 W / 1000 W	48 W / 48 W 300 W / 300 W 500 W / 750 W	48 W / 48 W 300 W / 300 W 500 W / 500 W	9.6 W / 9.6 W 96 W / 96 W 400 W / 400 W 1000 W / 2000 W	9.6 W / 9.6 W 96 W / 96 W 400 W / 400 W 1000 W / 2000 W
Housing	½19", 2 U	½19", 2 U	½19", 2 U	½19", 2 U	19", 2 U	19", 2 U

Model (Order number)	PLI1030MR3	PLI1080MR3	PLI1508MR4	PLI1512MR4	PLI1530MR3	PLI1580MR3
Voltage range	300 V	800 V	80 V	120 V	300 V	800 V
Current ranges	0.32 A 3.2 A 32 A	0.12 A 1.2 A 12 A	0.18 A 1.8 A 18 A 180 A	0.12 A 1.2 A 12 A 120 A	0.48 A 4.8 A 48 A	0.18 A 1.8 A 18 A
Resistance ranges	6.25 Ω ... 10 kΩ 0.63 Ω ... 1.01 kΩ 0.063 ... 100 Ω	16.7 Ω ... 53.7 kΩ 1.67 Ω ... 5.37 kΩ 0.167 ... 537 Ω	11.2 Ω ... 4.77 kΩ 1.12 ... 477 Ω 0.112 ... 47.7 Ω 0.012 ... 4.77 Ω	16.7 Ω ... 10.7 kΩ 1.67 Ω ... 1.07 kΩ 0.167 ... 107 Ω 0.017 ... 10.7 Ω	4.17 Ω ... 6.72 kΩ 0.42 ... 672 Ω 0.042 ... 67.2 Ω	11.2 Ω ... 47.7 kΩ 1.12 Ω ... 4.77 kΩ 0.112 ... 47.7 Ω
Power ranges continuous / short-time	96 W / 96 W 600 W / 600 W 1000 W / 1500 W	96 W / 96 W 600 W / 600 W 1000 W / 1000 W	14.4 W / 14.4 W 144 W / 144 W 600 W / 600 W 1500 W / 3000 W	14.4 W / 14.4 W 144 W / 144 W 600 W / 600 W 1500 W / 3000 W	144 W / 144 W 900 W / 900 W 1500 W / 2250 W	144 W / 144 W 900 W / 900 W 1500 W / 1500 W
Housing	19", 2 U	19", 2 U	19", 2 U	19", 2 U	19", 2 U	19", 2 U