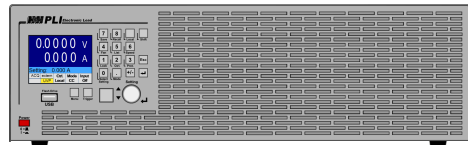


# Datasheet PLI Series



Model	PLI3206	
Order No.	17-016-000-01	
Voltage	60 V	
Min. input voltage	1.2 V	
Current	300 A	
Continuous power	3200 W	
Short-time power <sup>1)</sup>	6400 W	

Current setting	0 ... 300 A
Voltage setting	0 ... 60 V
Resistance setting	0.007 Ohm ... 2.15 Ohm
Power setting <sup>2)</sup>	0 ... 6400 W
Rise/fall time <sup>3)</sup>	60 µs
Load connections (front) <sup>4)</sup>	-
Load connections (back) <sup>4)</sup>	FK25
Power consumption	140 VA
Noise max. <sup>5)</sup>	70 dB(A)
Weight	22.5 kg
Housing <sup>6)</sup>	19" - 3 HU

- 1) Level and duration of the peak power, see diagram on page 2.  
 2) The setting range extends max. to the possible peak power.  
 3) Rise and fall times are defined of 10 % ... 90 % and 90 % ... 10 % of the maximum current. (current mode, FAST, tolerance  $\pm 20$  %) Rise and fall time at setting „medium“: ca. 500 µs, „slow“: ca. 5 ms.

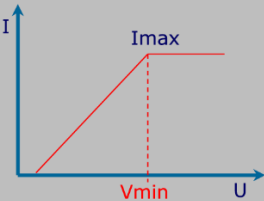
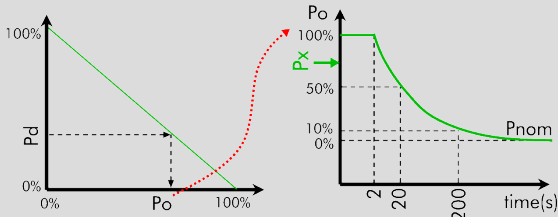
- 4) PK4-30: Pole terminal touch-protected for 4 mm laboratory jack + stripped wires, max. 30 A  
 PK4-60: Pole terminal touch-protected for 4 mm laboratory jack + stripped wires, max. 60 A.  
 FK8: Flat copper rail 8x5 mm with M8 screw  
 FK25: Flat copper rail 25x10 mm with M10 screw  
 FK40: Flat copper rail 40x12 mm with 4 mm hole and M14 screw

- 5) Measured on the front from distance of 1 m  
 6) 1 HU = 44.45 mm

# Datasheet PLI Series



Accuracy of setting		
	of the setting value	of the corresponding range
Voltage	±0.2 %	±0.05 %
Current	±0.2 %	±0.05 %
Resistance (at 5 % to 100 % of the voltage range)	±1.4 %	±0.3 % of current range
Power (at V and I > 30 % of the corresponding range) (at V or I < 30 % of the corresponding range)	±0.35 % ±0.7 %	±0.1 % ±0.25 %
Resolution	14 bit	
Accuracy of settable protections		
	of the setting value	of the corresponding range
Over-current prot.	±1.4 %	±0.3 %
Under-voltage prot.	±1.4 %	±0.3 %
Resolution	12 bit	
Accuracy of measurement/display (in static CC, CR, CV mode)		
	of the measured value (actual value)	of the corresponding range
Voltage	±0.03 %	±0.02 % ±1 digit
Current	±0.2 %	±0.05 % ±1 digit
Resistance	is calculated from current and voltage	
Power	is calculated from current and voltage	
Resolution	18 bit	
Sampling rate	330 ms, not triggerable	
Accuracy of measurement / display (in static CP mode and all dynamic modes)		
	of the measured value (actual value)	of the corresponding range
Voltage	±0.2 %	±0.1 % ±1 digit
Current	±0.2 %	±0.1 % ±1 digit
Resistance	is calculated from current and voltage	
Power	is calculated from current and voltage	
Resolution of meas.	12 bit	
Sampling rate	200 µs ... 800,000 s	
Dynamic function (LIST)		
No. of load levels	max. 300, with ramp time and dwell time setting	
	min	max
Pulse time	200 µs	800,000 s
Ramp time	0 s	800,000 s
Resolution	200 µs	
Accuracy of the setting times	±0.02 %	
Data acquisition		
To external flash drive:		
Sampling rate	0.5s, 1 s, 5 s, 10 s	
Measurement data	time stamp, voltage, current	
Number of measurement points	Limited by flash drive memory size	
File format	.csv format	
To internal memory:		
Sampling rate	200 µs ... 800,000 s, resolution 200 µs, synchronized with dynamic function	
Measurement data	time stamp, voltage, current	
Number of measurement points	Max. 8,000	

Accuracy of analog control 0 ... 10 V for voltage, current		
	of the setting value	of the corresponding range
Voltage	±0.2 %	±0.1 %
Current	±0.2 %	±0.1 %
Protections		
Over-current prot.	±1 %	±0.4 %
Under-voltage prot.	±1 %	±0.4 %
Input resistance of analog inputs >10 kΩ GND max. ±2 V with respect to negative load input <sup>1)</sup>		
Accuracy of analog measurement outputs 0 ... 10 V for voltage, current		
	of analog signal of real value	offset voltage
Voltage	±0.2 %	±15 mV
Current	±0.2 %	±15 mV
Minimum load 2 kΩ GND max. ±2 V with respect to negative load input <sup>1)</sup>		
Analog I/O port outputs and inputs		
Outputs	<ul style="list-style-type: none"><li>• status load on – off</li><li>• status overload (OV, OCP, OPP, OTP)</li><li>• trigger output</li><li>• programmable output</li></ul>	
Output level	Selectable 3.3 V, 5 V, 12 V or externally programmable up to 30 V	
Inputs	<ul style="list-style-type: none"><li>• load on – off</li><li>• mode selection</li><li>• trigger input</li><li>• programmable input (by SCPI command)</li><li>• control input (activates the I/O port)</li><li>• remote shut-down</li></ul>	
Input level	3 V to 30 V	
Input		
Input resistance	>50 kΩ when load input is off	
Input capacity	approx. 2µF / 600 W	
Parallel operation	Up to 5 units in Master-Slave mode (hardware-controlled)	
Minimum voltage (see above)		
Permissible operating voltage	negative load input – housing 125 V DC	
Power		
Continuous power	see above (at TA = 21 °C)	
Derating	-1.2 % / °C for TA > 21 °C	
Overload capacity	see above (short-time power)	
		
The max. possible overload Po depends on the temperature of the device and therefore on the previous consumed continuous power Pd. The possible overload duration depends on the value of the overload Px		

<sup>1)</sup> 125 V with option PLI06

# Datasheet PLI Series



Protection	
<b>Protective devices</b>	<ul style="list-style-type: none"> <li>Over-current</li> <li>Over-power</li> <li>Over-voltage up to 105 % of rated voltage</li> <li>Reverse polarity up to rated current</li> <li>Over-temperature</li> <li>Under-voltage display (if the input voltage is too low for the set voltage)</li> </ul>
Terminals	
<b>Load inputs</b>	See above
<b>Sense</b>	PK4-30 (pole terminal touch-protected for 4 mm laboratory jack + stripped wires)
Operating conditions	
<b>Operating temperature</b>	5 °C ... 40 °C
<b>Cooling</b>	3-stage air-cooling, from 3200 W variable controlled fan
<b>Noise</b>	See above
<b>Supply voltage</b>	115/230 V AC ( $\pm 10\%$ ), switchable, 50 ... 60 Hz
Housing	
<b>Dimensions, weight</b>	See above
<b>Color:</b>	
<b>Front panel, back panel</b>	RAL7032 (pebble grey)
<b>Side panels, top</b>	RAL7037 (stone grey)
Safety and EMC	
<b>Protection</b>	IP20
<b>Measuring category</b>	CAT I
<b>Electrical Safety</b>	DIN EN 61010-1
<b>EMC, CE marking</b>	DIN EN 61326-1 DIN EN 61000-3-2 DIN EN 61000-3-3 DIN EN 55011
Warranty	
<b>Warranty</b>	2 years
Specifications	
The specified accuracies refer to an ambient temperature of 25 °C $\pm$ 5 °C. The specified accuracies are valid when the unit is connected to undisturbed voltages. (Ripple and noise < 0.1 %). At voltages with higher disturbance values the accuracy can change for the worse.	

Standard Interfaces	
RS-232, USB, LAN, CAN	
Available Options	
Data Interfaces	
Option (Order-No.)	Description
<b>PLI02</b> <sup>1)</sup> (52-200-001-17)	GPIO Interface
Function expansion	
<b>PLI20</b> <sup>2)</sup> (56-001-000-17)	MPPT function with activation code
<b>Accuracy</b>	See accuracy of measurement / display (dynamic)
Hardware expansion	
<b>PLI06</b> <sup>1)</sup> (53-100-005-17)	Galvanically isolated Analog-I/O-Port
19" Assembly kits	
<b>PLI10</b> <sup>2)</sup> (64-303-000-17)	19" Assembly kit for 1 piece PLI6xx
<b>PLI11</b> <sup>2)</sup> (64-304-000-17)	19" Assembly kit for 2 pieces PLI6xx
<b>PLI12</b> <sup>2)</sup> (64-305-000-17)	19" Assembly kit for 1 piece PLI14xx/21xx
<b>PLI13</b> <sup>2)</sup> (64-306-000-17)	19" Assembly kit for 1 piece PLI32xx
Castors	
<b>PLI14</b> <sup>2)</sup> (64-400-000-17)	Heavy-load castors for devices from 5 HU (1 set = 4 pieces)
Calibration	
<b>Quality Certificate</b>	Is delivered as standard for every device and confirms that the device is within the stated technical specifications of the manufacturer when delivered.
<b>FCC-N-PLIxx</b> <sup>1)</sup> (65-001-000-17)	Factory Calibration Certificate for <b>new</b> devices, which documents the traceability to national standards. The FCC meets the requirements according to DIN EN ISO 9000ff
<b>FCC-PLIxx</b> <sup>1)</sup> (65-002-000-17)	Factory Calibration Certificate, which documents the traceability to national standards. The FCC meets the requirements according to DIN EN ISO 9000ff

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**Subject to technical modifications**

<sup>1)</sup> Can only be retrofitted or produced by H&H

<sup>2)</sup> Can be retrofitted at any time