Datasheet Series PLI

Model	PLI1	2630	
Order no.	17-053	-000-02	
Max. input voltage Vmax			300 V
Min. input voltage Vmin			2 V
Max. load current Imax			270 A
Continuous power			12600 W
Short-time power ¹⁾			18900 W
Voltage setting			0 300 V
Current setting			0 270 A
Resistance setting			0.00741 Ohm 11.9482 Ohm
Power setting ²⁾			0 18900 W
Rise and fall time fast / medium / slow $^{3)}$			20 µs
Load terminals (front) ⁴⁾			
Load terminals (rear) ⁵⁾			FKS25/10-SM10
Power consumption			540 VA
Max. noise ⁶⁾			76 dB(A)
Weight ca.			85 kg
Housing ⁷⁾			19" - 11 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 ±20 %) Rise and fall time at setting "medium": ca. 500 µs, "slow": ca. 5 ms.
- PK4-30: Pole terminal touch-protected for 4 mm laboratory jack + stripped wires, max. 30 Å PK4-60: Pole terminal touch-protected for 4 mm laboratory jack + stripped wires, max. 60 Å. 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

- 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
- 6. Measured on the front from distance of 1 m
- 7. 1 HU = 44.45 mm

Höcherl & Hackl The electronic load

PLI Series

Technical Data

Accuracy of setting		
	of setting	of corresponding range
Voltage	±0.2 %	±0.05 %
Current	±0.2 %	±0.05 %
Resistance (t 5 % to 100 % of voltage range)	±1.4 %	±0.3 % of current range
Power (at V and I > 30 % of range) (at V or I < 30 % of range)	±0.35 % ±0.7 %	±0.1 % ±0.25 %
Resolution	14 bits	
Accuracy of adjustable		
Accuracy of aujustable	of setting	of corresponding range
	or setting	
Overcurrent pro- tection	±1.4 %	±0.3 %
Undervoltage protection	±1.4 %	±0.3 %
Resolution	12 bits	
Accuracy of display/m	easurement slow	
	of measured value (real value)	of corresponding range
Voltage	±0.01 %	±0.005 %
Current	±0.2 %	±0.05 %
Resistance	is calculated from current and voltage	
Power	is calculated from current a	nd voltage
Resolution	23 bits	
Sampling rate	250 ms, not triggerable	
Accuracy of measurer	nent fast	
,	of measured value (real value)	of corresponding range
Voltage	±0.1 %	±0.05 %
Current	±0.2 %	±0.1 %
Resistance	calculated from voltage and	
Power	calculated from voltage and	
Resolution	16 Bit	
Sampling rate	200 µs 1000 s	
,	Itage and current measurement	
Voltage	±1 % of range	
Current	±1 % of range	
Dynamic function (LIS		
No. of load levels	max. 300, ith ramp and dwe	
	min.	max.
Dwell time	200 µs	1000 s
Ramp time	0 s	1000 s
Resolution	200 µs	
Accuracy of the setting times	±0.02 %	
Delay at triggered start	max. 300 µs	

Data acquisition		
to external USB flash d		
Sampling rate	0.5 to 30 s, resolution 0	.1 s
Measurement data	timestamp, voltage, cu	rent
No. of measure- ment points	limited by USB memory	/ capacity
File format	.CSV	
to internal memory		
Sampling rate	200 µs 1000 s, resolu dynamic function	tion 200 µs, synchronized with
Measurement data	timestamp, voltage, cu	rent
No. of measure- ment points	max. 40,000	
Settings memories		
No. of user settings		rammed list) s at power-off or power fail
I/O port: accuracy of	analog control 0 10 V	
	of setting	of corresponding range
Voltage	±0.2 %	±0.1 %
Current	±0.2 %	±0.1 %
Overcurrent protection	±1 %	±0.4 %
Undervoltage protection	±1 %	±0.4 %
	Input resistance of ana	log inputs >10 kΩ
I/O port: accuracy of	analog monitor outputs 0	. 10 V
	of analog signal of real value	offset voltage
Voltage	±0.2 %	±15 mV
Current	±0.2 %	±15 mV
	load capacity minimal 2	2 kΩ
I/O port: permissible	potentials	
	standard I/O port	isolated I/O port (option PLIO6)
GND - neg. load input	max. 2 V ¹⁾	max. 800 V ¹⁾
GND - PE	max. 125 V ¹⁾	max. 125 V ¹⁾
I/O port: control outp	outs and inputs	
Outputs	status load input (on/of overload (OV, OCP, OPP, trigger output programmable output (OTP)
Output level	selectable, 3.3 V, 5 V, 12 to 30 V	V or externally programmable up
Control inputs	load input on/off operating mode selecti trigger input digital input control input (activates Remote shut-down	on analog control signals)

The specified accuracies refer to an ambient temperature of 23 ±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.

¹⁾ positive/negative DC voltage or RMS value of a sinusoidal AC voltage

Technical Data (continued)

Input		
Input resistance	 > 50 kΩ when load input is diode function at reverse 	s off polarity up to nominal current
Input capacity	ca. 2 µF/600 W	
Parallel operation	up to 5 devices in Master-	Slave operation
Max. input voltage Vmax	see model overview	
Min. input voltage Vmin for max. current Imax	models up to 120 V: 1.2 V models from 300 V: 2 V PLIxxxxEC: 5 V	I Imax Vmin V

Input: permissible potentials

input, permissible poten	וומנס	
	standard I/O port	isolated I/O port (option PLIO6)
neg. load input - PE	max. 125 V ¹⁾	max. 800 V ¹⁾
Power		
Continuous power	see model overview (at Ta = 2	1 °C)
Derating	-1,2 %/°C for Ta > 21 °C	
Overload capability (short-time power)	see model overview The max. possible overload P re of the device and therefore continuous power Pd. The pos depends on the value of the o	on the previously consumed ssible overload duration
100% P 0% P	Po 100% 50% 10% 0% 0%	Pnom Pnom time(s)
Protection and monitorin	g	
Protective devices	overcurrent overpower overtemperature	
Monitoring	overvoltage indication reverse polarity indication undervoltage indication (if the the set current)	e input voltage is too low for
Terminals		
Load input	see model overview	
Sense	PH2/7.62-BU16, see starting	at page 101

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Operating temperature	5 40 °C
Stock temperature	-25 65 °C
Max. operating height	2,000 m above sea level
Pollution degree	2
Overvoltage category of mains	Ш
Max. humidity	80 % at 31 °C, linear decreasing to 50 % at 40 °C
Min. distance rear panel - wall or other objects	70 cm
Cooling	temperature-controlled air cooling
Noise. weight	see model overview
Supply voltage (mains))	115/230 V AC (±10 %), selectable, 50 60 Hz
with option PLI18	11 15 V DC
Power consumption	see model overview
Housing	
	RAL7035 (light grey) stainless steel RAL7037 (dusty grey)
Housing Color Front Rear	stainless steel
Housing Color Front Rear Top, side panels	stainless steel
Housing Color Front Rear Top, side panels Safety and EMC	stainless steel RAL7037 (dusty grey)
Housing Color Front Rear Top, side panels Safety and EMC Protection class	stainless steel RAL7037 (dusty grey)
Housing Color Front Rear Top, side panels Safety and EMC Protection class Protection	stainless steel RAL7037 (dusty grey) 1 IP20

Factory Calibration Certificate, twice for free

2 years

FCC-PLIxx

Warranty