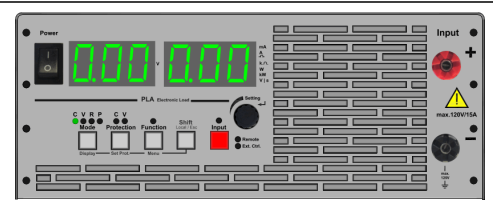


Datasheet Series PLA

Model	PLA406C8	
Order no.	22-005-001-01	
Max. input voltage V_{max}	60 V	
Min. input voltage V_{min}	1.2 V	
Max. load current I_{max}	8 A	
Continuous power	400 W	
Short-time power ¹⁾	480 W	
Voltage setting	0 ... 60 V	
Current setting	0 ... 8 A	
Resistance setting	0.25 Ohm ... 500 Ohm	
Power setting ²⁾	0 ... 480 W	
Rise and fall time fast / medium / slow ³⁾	35 µs	
Load terminals (front) ⁴⁾	PK4-30L	
Load terminals (rear) ⁵⁾	PK4-30L	
Power consumption	37 VA	
Max. noise ⁶⁾	61 dB(A)	
Weight ca.	3.85 kg	
Housing ⁷⁾	½ 19" - 2 HU	



1. Level and duration of the peak power depend on the previous power.
2. The setting range extends max. to the possible shorttime 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 "slow": approx. 500 µs.
4. PK4-30L: Pole terminal for 4 mm laboratory jack + stripped wires, max. 30 A
BPK4-30L: Pole terminal touch-protected for 4 mm laboratory jack + stripped wires, max. 30 A
BPK4-60L: Pole terminal touch-protected for 4 mm laboratory jack + stripped wires, max. 60 A
SBU4-32: Safety socket for 4 mm safety connector, max. 32 A
FKS20/4-SM8: Flat copper bar 20x4 mm mounted vertically with M8 screw
5. PK4-30L: Pole terminal for 4 mm laboratory jack + stripped wires, max. 30 A
BPK4-30L: Pole terminal touch-protected for 4 mm laboratory jack + stripped wires, max. 30 A
BPK4-60L: Pole terminal touch-protected for 4 mm laboratory jack + stripped wires, max. 60 A
SBU4-32: Safety socket for 4 mm safety connector, max. 32 A
FKS20/4-SM8: Flat copper bar 20x4 mm mounted vertically with M8 screw
6. Measured on the front from distance of 1 m
7. Device height incl. equipment feet. Maximum width and depth incl. handle. Installation depth without connection cable. 1 HU = 44.45 mm

Accuracy of setting		
	of setting value	of corresponding range
Voltage	±0.1 %	±0.05 %
Current	±0.2 %	±0.05 %
Resistance (at 5 % to 100 % of voltage range)	±1.4 %	±0.3 % of current range
Power (at V and I > 10 % of range) (at V or I 5 ... 10 % of range)	±0.7 % ±2 %	
Resolution	12 Bit	
Accuracy of adjustable protections		
	of setting value	of corresponding range
Overcurrent protection	±0.5 %	±0.05 %
Undervoltage protection	±0.3 %	±0.02 %
Resolution	12 Bit	
Accuracy of measurement		
	of measured (real) value	of corresponding range
Voltage	±0.1 %	±0.05 %
Current	±0.2 %	±0.05 %
Resistance	is calculated from voltage and current	
Power	is calculated from voltage and current	
Resolution	16 bits	
Sampling rate	100 µs, not triggerable	
Accuracy of displays (user interface)		
Display user interface	accuracy of each measurement, ±1 digit of the display value	
Resolution	see display resolution page 22	
Dynamic function (LIST)		
Number of load levels	max. 100, with corresponding ramp and dwell time	
	min.	max.
Dwell time	1 ms	100 s
Ramp time	0 s	100 s
Resolution	1 ms	
Accuracy of setting times	±0.02 %	
Data acquisition		
	to internal memory	
Sampling rate	1 ms ... 100 s, 1 ms resolution	
Measurement data	time stamp, voltage, current	
Number of measurement points	max. 100	
Settings memories		
Number of user settings	10, selectable (incl. programmed list)	
Accuracy of analog control 0 ... 10 V		
	of the setting value	of the corresponding range
Voltage	±0.2 %	±0.05 %
Current	±0.2 %	±0.05 %
	input resistance of analog inputs >10 kΩ GND max. 2 V ¹⁾ with respect to negative load input	

I/O port outputs and inputs		
Status and control outputs	Status load input (on/off) overload (OV, OCP, OPP, OTP)	
Output level	5 V	
Control inputs	load input (on/off) control input (activates I/O port)	
Input level	3 ... 30 V	
Accuracy of analog monitor outputs 0 ... 10 V		
	of analog signal of real value	offset voltage
Voltage	±0.1 %	±15 mV
Current	±0.2 %	±15 mV
	minimum load 2 kΩ GND max. 2 V ¹⁾ with respect to negative load input	
Input		
Input resistance	>50 kΩ when load input is off diode function at reverse polarity up to nominal current	
Input capacity	max. 3 µF	
Parallel operation	up to 5 devices in Master-Slave operation (hardware-controlled)	
Maximum input voltage V _{max}	see model overview	
Minimum input voltage V _{min}	1.2 V for maximum current, linear derating to 0 V	
Permissible potential	negative load input - PE: 125 V ¹⁾	
Power		
Continuous power	see model overview (at Ta = 21 °C)	
Derating	-1.2 %/°C für Tu > 21 °C	
Overload capacity	see model overview The possible short-time power depends on the temperature of the device and with that on the normal rating taken before.	
Protection and monitoring		
Protective devices	overcurrent overpower overtemperature	
Monitoring	overvoltage indication reverse polarity indication undervoltage display (if the input voltage is too low for the set current)	
Operating conditions		
Operating temperature	5 ... 40 °C	
Stock temperature	-25 ... 65 °C	
Max. operating height	2000 m above sea level	
Pollution degree	2	
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	see model overview	
Supply voltage (mains) with Option PLA18o	85 ... 264 V AC, 50 ... 60 Hz 10 ... 18 V DC	
Power consumption	see model overview	

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)

Terminals	
Load input	see model overview
Sense	at I/O port, only at models up to 120 V
Housing	
Color Front and rear panel Side panels and top	RAL7032 (pebble grey) RAL7037 (dusty grey)
Dimensions, weight	see model overview
Safety and EMC	
Protection class	1
Protection	IP20
Measuring category	0 (CAT I according to EN 61010:2004)
Electrical safety	DIN EN 61010-1 DIN EN 61010-2-030
EMV, CE marking	DIN EN 55011 DIN EN 61326-1 DIN EN 61000-3-2 DIN EN 61000-3-3
Calibration, warranty	
FCC-PLAxx	Factory Calibration Certificate, twice free of charge
Warranty	2 years