## **Datasheet Series PLA**

Model	PLA406 22-005-000-01		
Order no.			
Max. input voltage Vmax			60 V
Min. input voltage Vmin		1.2 V	
Max. load current Imax		30 A	
Continuous power		400 W	
Short-time power <sup>1)</sup>		500 W	
Voltage setting		0 60 V	
Current setting		0 30 A	
Resistance setting		0.0666 Ohm 133.33 Ohm	
Power setting <sup>2)</sup>		0 500 W	
Rise and fall time fast / medium / slow $^{ m 3)}$		35 µs	
Load terminals (front) 4)		PK4-30L	
Load terminals (rear) <sup>5)</sup>		PK4-30L	
Power consumption		37 VA	
Max. noise <sup>6)</sup>		61 dB(A)	
Weight ca.		3.85 kg	
Housing <sup>7)</sup>			1⁄2 19" - 2 HU

- $1. \quad Level \ and \ duration \ of \ the \ peak \ power \ depend \ on \ the \ previous \ power.$
- 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.
- 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
- PK4-3UL: Pole terminal tor 4 mm laboratory jack + stripped wires, max. 30 A BPK4-3UL: 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

Höcherl & Hackl The electronic load

## PLA Series

## **Technical Data**

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)	±0.7 %			
(at V or I 5 10 % of range)	±2 %			
Resolution	12 Bit			
Accuracy of adjustable	e protections			
	of setting value	of corresponding range		
Overcurrent protection	±0.5 %	±0.05 %		
Undervoltage protection	±0.3 %	±0.02 %		
Resolution	12 Bit			
Accuracy of measuren	nent			
	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 ar	nd current		
Resolution	16 bits			
Sampling rate	100 μs, not triggerable			
Accuracy of displays (	user interface)			
Display user inter- face	accuracy of each measurem ±1 digit of the display value	ent,		
Resolution	see display resolution page	22		
Dynamic function (LIS	T)			
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	1 ms		
Accuracy of setting times	±0.02 %			
Data acquisition				
	to internal memory			
Sampling rate	1 ms 100 s, 1 ms resolutio			
Measurement data		time stamp, voltage, current		
Number of measu- rement points	max. 100			
Settings memories				
Number of user settings	10, selectable (incl. programmed list)			
Accuracy of analog co	ntrol 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 $k\Omega$ GND max. 2 V $^{1)}$ with respect to negative load input			

The specified accuracies refer to an ambient temperature of 23  $\pm$ 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.

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

Status and	Status load input (on/off)			
control outputs		overload (OV, OCP, OPP, OTP)		
Output level Control inputs	load input (on/off)	5 V		
controt inputs	control input (activates I/O port)			
Input level	3 30 V			
Accuracy of analog mon	itor outputs 0 10 V			
	of analog signal	offset voltage		
	of real value			
Voltage	±0.1 %	±15 mV		
Current	±0.2 % ±15 mV			
	minimum load 2 kΩ GND max. 2 V <sup>1)</sup> with respect	to negative load input		
Input				
Input resistance	>50 $k\Omega$ 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 Vmax	see model overview			
Minimum input 1.2 V for maximum current, linear derating to 0 V voltage Vmin				
voltage vitilit	I Imax			
		Vmin V		
Permissible potential	negative load input - PE: 125	5 V <sup>1)</sup>		
Power	1			
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 pow rature of the device and with taken before.			
Protection and monitori	ng			
Protective devices	overcurrent			
	overpower overtemperature			
Monitoring	overvoltage indication			
	reverse polarity indication undervoltage display (if the i	nput voltage is too low for th		
	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 decreas	sing 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)	85 264 V AC, 50 60 Hz			
with Option PLA180	10 18 V DC			
Power consumption	see model overview			

## 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	O (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			