

# adphos Power Supply

The Power Supply for the adphosNIR®-Technology

## Product Description:

Each power supply can be used to run one or multiple emitter modules. To achieve that different power supplies, ranging from 2.5 kW to 72 kW (higher powers on request) are available.

The power can be regulated from 10 to 100 % via an internal potentiometer or an external analogue signal.

If more than one NIR module shall be driven from the power supply, an external customer provided connection terminal has to be used (also available at adphos on request).

By adding up the individual power requirement for the power cabinet is calculated.

An easy integration into new and existing machines is achieved by the compact size as well as easy electrical integration.



## Features:

- Interfaces:
  - Power supply on terminal block
  - Power output for NIR module on terminal block
  - Ext. analogue input signal via cinch cable (0 – 10 V DC)
  - Ext. analogue output signal via cinch cable (0 - 10 V DC) for master slave operations of max. 4 power supplies
  - 24 VDC power output for blowers
  - 24 VAC or 24 VDC interlock signal
- Easy mechanical integration through compact design
- Can run one or more NIR modules
- Build according to VDE

## Application Examples:

- Power supply for NIR modules used in
  - Plastic applications
  - Ink and varnish applications
  - Print and paper applications
  - Research & development applications

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# Technical Data:

NIR Power Supply*	PS-2.5	PS-5	PS-7.5	PS-12	PS-24	PS-36	PS-72
Connected Lead	2.5 kW	5.0 kW	7.5 kW	12 kW	24 kW	36 kW	72 kW
Nominal current per phase	6.5 A	11 A	19 A	18 A	35 A	52 A	105 A
Nominal line voltage	400 V <sub>3AC</sub>						
Alt. nominal line voltage	230 VAC						
Net frequency	50 Hz						
Power control points	1	1	1	1	1	1	1
Size (H x W x D)	600 x 380 x 210 mm <sup>3</sup>	600 x 380 x 210 mm <sup>3</sup>	800 x 400 x 300 mm <sup>3</sup>	800 x 400 x 300 mm <sup>3</sup>	800 x 600 x 250 mm <sup>3</sup>	1,000 x 600 x 250 mm <sup>3</sup>	1,000 x 800 x 300 mm <sup>3</sup>
Weight	25 kg	30 kg	40 kg	50 kg	80 kg	100 kg	120 kg

\*Power setting by phase angle control

## Order code of available modules:

Type	Power	Order Code
PS-2.5/400	2.5 kW	520001
PS-5/400	5 kW	520002
PS-7.5/400	7.5 kW	520003
PS-12/400	12 kW	520004
PS-24/400	24 kW	520005
PS-36/400	36 kW	520006
PS-72/400	72 kW	520007
PS-2.5/230	2.5 kW	520008
PS-5/230	5 kW	520009

Specials concerning power, voltage or interface are available on request.

All here mentioned data are subject to changes due to product optimisation

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