

Power Supplies





No compromises

The power supply is one of the key components in the machine's switching cabinet. It greatly influences the machine availability as required by the customer because all electrical components depend on the reliability of the power supply.

B&R is introducing a new power supply generation in order to meet many requirements of machine users and therefore the requirements for machine manufacturing.

All power supplies can handle a wide range of AC and DC input voltages and are approved for a wide temperature range. The power supplies have short-circuit, overload, and open-circuit protection. The devices also have a complete international certification package.

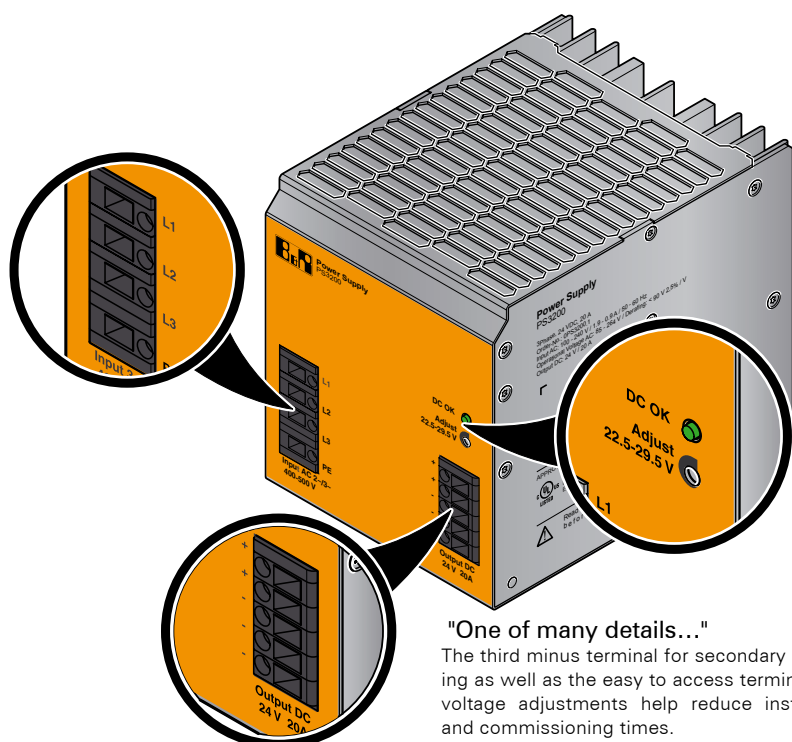
The compact and user-friendly construction of the devices saves space in stock and also in the switching cabinet. The terminals and voltage adjustments are easy to access, which helps reduce installation and commissioning times.

The functionality of the B&R power supplies meets the requirements for machine manufacturing precisely. The functionality does not include costly additional functions that are only relevant for special applications. This increases cost-effectiveness. In this way, B&R offers the optimal device for OEM machine manufacturing.

The power supply product range provides features suited to the requirements for series production machine manufacturing. In this way, B&R further contributes as a system provider to the cost optimization of your machines.

Highlights:

- Optimized devices reduce costs
- Dimensions save space
- An extensive product range meets the requirements of series production machine manufacturing
- Easy mounting rail installation
- Proven in the field
- Connection terminals are included in the delivery



"One of many details..."

The third minus terminal for secondary grounding as well as the easy to access terminals and voltage adjustments help reduce installation and commissioning times.

Overview & Technical Data

Single-phase power supplies



| | 0PS1025.2 | 0PS1042.2 | 0PS1020.0 | 0PS1040.0 | 0PS1050.1 | 0PS1100.1 | 0PS1200.1 |
|--------------------------------|----------------|---------------|---------------|----------------|---------------|-----------------|------------------|
| Input voltage range | 100 - 240 VAC | 100 - 240 VAC | 100 - 240 VAC | 100 - 240 VAC | 100 - 240 VAC | 100 - 240 VAC | 100 - 240 VAC |
| Rated output voltage | 24 VDC | 24 VDC | 24 VDC | 24 VDC | 24 VDC | 24 VDC | 24 VDC |
| Rated output current | 2.5 A | 4.2 A | 2 A | 4 A | 5 A | 10 A | 20 A |
| Efficiency | >86% | >88% | >88% | >88% | >89% | >89% | >91% |
| MTBF | > 500,000 h | > 500,000 h | > 500,000 h | > 500,000 h | > 500,000 h | > 500,000 h | > 500,000 h |
| Ambient temp. during operation | -25°C to +70°C | -25 to +70°C | -25 to +70°C | -25 to +70°C | -25 to +70°C | -25 to +70°C | -25 to +70°C |
| Dimensions (WxHxD) | 72x90x61 mm | 90x90x61 mm | 45x99x107 mm | 67.5x99x107 mm | 40x130x115 mm | 60x130x152.5 mm | 115x130x152.5 mm |

Three-phase power supplies



| | 0PS3050.1 | 0PS3100.1 | 0PS3200.1 | 0PS3400.1 |
|--------------------------------|----------------------|----------------------|------------------|------------------|
| Input voltage range | 2x/ 3x 400 - 500 VAC | 2x/ 3x 400 - 500 VAC | 3x 400 - 500 VAC | 3x 400 - 500 VAC |
| Rated output voltage | 24 VDC | 24 VDC | 24 VDC | 24 VDC |
| Rated output current | 5 A | 10 A | 20 A | 40 A |
| Efficiency | >89% | >89% | >91% | >92% |
| MTBF | > 500,000 h | > 500,000 h | > 500,000 h | > 500,000 h |
| Ambient temp. during operation | -25 to +70°C | -25 to +70°C | -25 to +70°C | -25 to +70°C |
| Dimensions (WxHxD) | 40x130x115 mm | 60x130x115 mm | 115x130x152.5 mm | 139x130x190 mm |

Buffer module



| | 0PB0200.1 |
|--------------------------------|---------------|
| Input voltage range | 24 VDC |
| Rated output voltage | 24 VDC |
| Rated output current | 0...20 A |
| Efficiency | >95% |
| MTBF | > 500,000 h |
| Ambient temp. during operation | -25 to +70°C |
| Dimensions (WxHxD) | 64x130x125 mm |

CORPORATE HEADQUARTERS

Bernecker + Rainer Industrie-Elektronik Ges.m.b.H.

B&R Strasse 1

5142 Eggelsberg

Austria

Tel.: +43 (0) 77 48/65 86 - 0

Fax: +43 (0) 77 48/65 86 - 26

info@br-automation.com

www.br-automation.com

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