



wieland

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Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
 - Screw, spring clamp or IDC connection technology
 - Wire cross sections up to 240 mm²
 - Numerous special functions
 - Software solutions interfacing to CAE systems
- Safety
 - Safety sensors
 - Safety relays
 - Modular safety systems with fieldbus link
- PLC and fieldbus components
 - Standard applications in IP20
 - Increased environmental conditions with railroad and ship approvals
- Interface
 - Coupling relays, semiconductor switches
 - Measuring and monitoring relays
 - Timer and switching relays
 - Analog modules
 - Passive interfaces
 - Power supply units
 - Overvoltage protection

Solutions for field applications

- Remote automation technology
 - Power distribution
 - Fieldbus interfaces and motor starters
- Connectors for industrial applications
 - Square and round connectors
 - Aluminum or plastic housings
 - Degree of protection up to IP68
 - Current-carrying capacity up to 100 A
 - Connectors for hazardous areas
 - Modular, application specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
 - Main power supply connectors IP20/IP65...IP68
 - Bus connectors
 - Combined connectors
 - Low-voltage connectors
 - Power distribution system with flat cables
 - Distribution systems
 - Bus systems in KNX, LON and radio technology
 - DIN rail terminal blocks for electrical installations
 - Overvoltage protection

**contacts
are
green.**

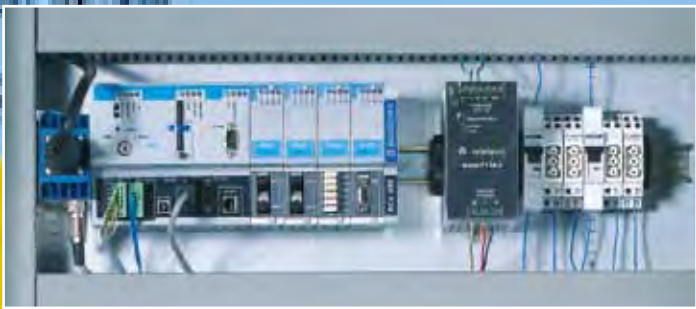
Product Range



wipos
Power supply units

Pure power














wipos Power supply units

Pure Power. No-Frills.

Power supplies perform a central function in the control cabinet. Their reliability affects the availability of the machine or the process to a great degree. That is why a robust and proven design is very important for a power supply unit. There are no unnecessary frills with the **wipos** family. Instead, these power supply units score with their fundamental features.

wipos satisfies your requirements in the significant disciplines:

- | | |
|--|---|
|  100% power up to 60°C |  Can be connected in parallel (from 5 A) to increase power and redundancy |
|  Automatic or wide-input voltage range for worldwide use |  High operational reliability due to long hold-up times >30ms |
|  PFC technology for high functional reliability |  Compensation of voltage drops via adjustable output voltage |
|  Outdoor installation possible due to wide temperature range |  Easy to commission via LED diagnosis |
|  Active monitoring with signalling contact | |



wipos Modules

Power supply wipos
P1 24-1.25
P1 24-2.5



Type	Part No.	Part No.
wipos P1 24-1.25	81.000.6110.0	
wipos P1 24-2.5		81.000.6120.0
Technical data		
Input voltage	85 – 264V AC, 90 – 375V DC	85 – 264V AC, 90 – 375V DC
PFC	not necessary	not necessary
Hold up time	> 30ms at 230V	> 30ms at 230V
Output voltage	24 – 28V	24 – 28V
Output current	1.25 A	2.5 A
Parallel operation	no	no
In series connectable	yes	yes
Temperature range	-25 – +71 °C	-25 – +71 °C
Derating	> 60 °C	> 60 °C
Signaling contact	yes	yes
Dimensions W x H x D	43.5 x 88.5 x 114	43.5 x 88.5 x 114
Weight	290g	360g
Type of connectors	Screw terminal	Screw terminal
Connector size	0.2 – 2.5mm ²	0.2 – 2.5mm ²
Efficiency	83 – 86%	86 – 89%
Approvals	CE UL 1310 Class 2	CE UL 1310 Class 2

Power supply wipos
P1 24-3.8
P1 24-5



Type	Part No.	Type	Part No.
wipos P1 24-3.8	81.000.6135.0		
wipos P1 24-5			81.000.6130.0
Technical data			
Input voltage	115/230V AC auto, 210 – 375V DC	115/230V AC auto, 210 – 375V DC	
PFC	yes	yes	
Hold up time	> 30ms at 230V	> 30ms at 230V	
Output voltage	22.5 – 24.5V	22.5 – 28.5V	
Output current	3.8 A	5 A	
Parallel operation	no	yes (up to 3)	
In series connectable	yes	yes	
Temperature range	-25 – +71 °C	-25 – +71 °C	
Derating	> 60 °C	> 60 °C	
Signaling contact	yes	yes	
Dimensions W x H x D	63.2 x 123.6 x 123.6	63.2 x 123.6 x 123.6	
Weight	920g	920g	
Type of connectors	Screw terminal	Screw terminal	
Connector size	0.5 – 6mm ²	0.5 – 6mm ²	
Efficiency	83 – 85%	84 – 86%	
Approvals	CE UL 1310 Class 2	CE	

Power supply wipos
P1 24-10
P1 24-20



Type	Part No.	Part No.
wipos P1 24-10	81.000.6140.0	
wipos P1 24-20		81.000.6150.0
Technical data		
Input voltage	115/230V AC auto, 210–375V DC	115/230V AC auto, 120–370V DC
PFC	yes	yes
Hold up time	> 30ms at 230V	> 30ms at 230V
Output voltage	22.5 – 28.5V	22.5 – 28.5V
Output current	10 A	20 A
Parallel operation	yes (up to 3)	yes (up to 3)
In series connectable	yes	yes
Temperature range	-25 – +71 °C	-25 – +71 °C
Derating	> 60 °C	> 55 °C
Signaling contact	yes	yes
Dimensions W x H x D	83 x 123.6 x 123.6	175 x 123.6 x 123.6
Weight	1300g	1920g
Type of connectors	Screw terminal	Screw terminal
Connector size	0.5 – 6mm ²	0.5 – 6mm ²
Efficiency	87 – 89 %	86 – 89 %
Approvals	CE	CE

wipos Modules

Power supply wipos
P3 24-5
P3 24-10



Type	Part No.	Part No.
wipos P3 24-5	81.000.6160.0	
wipos P3 24-10		81.000.6170.0
Technical Data		
Input voltage	340 – 575VAC, 480 – 820VDC	340 – 575VAC, 480 – 820VDC
PFC	yes (0,55)	yes (0,6)
Hold up time	20 ms	20 ms
Output voltage	22,5 – 28,5V	22,5 – 28,5V
Output current	5 A	10 A
Parallel operation	yes (up to 2)	yes (up to 2)
In series connectable	yes	yes
Temperature range	-25 – +71 °C	-25 – +71 °C
Derating	> 60 °C	> 60 °C
Signal contact	yes	yes
Dimensions W x H x D	75 x 123,6 x 118,2	89 x 123,6 x 118,2
Weight	800 g	1100 g
Type of connectors	Screw terminal	Screw terminal
Connector size	to 6 mm ²	to 6 mm ²
Efficiency	88 – 90%	88 – 90%
Approvals	CE cULus	CE cULus

Power supply wipos
P3 24-20



Type	Part No.
wipos P3 24-20	81.000.6180.0
Technical Data	
Input voltage	340 – 575VAC, 480 – 820VDC
PFC	yes (0,7)
Hold up time	20 ms
Output voltage	22,5 – 28,5V
Output current	20 A
Parallel operation	yes (up to 2)
In series connectable	yes
Temperature range	-25 – +71 °C
Derating	> 60 °C
Signal contact	yes
Dimensions W x H x D	150 x 123,6 x 118,2
Weight	1750g
Type of connectors	Screw terminal
Connector size	to 6 mm ²
Efficiency	88 – 90%
Approvals	CE cULus

Power supply wipos
P3 24-40



Type	Part No.
wipos P3 24-40	81.000.6190.0
Technical Data	
Input voltage	340 – 575VAC, 480 – 820VDC
PFC	yes (0,7)
Hold up time	15 ms
Output voltage	22,5 – 28,5V
Output current	40A
Parallel operation	yes (up to 2)
In series connectable	yes
Temperature range	-25 – +71 °C
Derating	>60 °C
Signal contact	yes
Dimensions W x H x D	275,8 x 125,9 x 118,2
Weight	3200g
Type of connectors	Screw terminal
Connector size	to 6 mm ² / output to 16 mm ²
Efficiency	90 – 92%
Approvals	CE cULus

Further Modules available on request.



wipos Modules

Redundancy module *wipos* R20



Type	Part No.
wipos R20	81.000.6200.0
Technical Data	
Input voltage	21 – 28 V DC
Input current	20 A (in total)
Output current	20 A
Typical voltage drop	0.5 V
Temperature range	-25 °C – +71 °C
Signal contact	one each for channel A and B
Signal contact	1 A at 30 V DC
Input voltage for relay "OK"	20 – 30 V (+/-5 %)
Input voltage for relay "fail"	<20 V or >30 V (+/-5 %)
Dimensions W x H x D	54 x 90 x 114
Weight	210 g
Type of connectors	Screw terminal
Connector size	0.2 – 2.5 mm ²
Connector size Signal contacte	0.2 – 1.5 mm ²
Approvals	CE

Power supply *wipos* PB1 24-0.42



Type	Part No.
wipos PB1 24-0.42	81.000.6300.0
Technical Data	
Input voltage	90 – 264 V AC, 120 – 375 V DC
PFC	not necessary
Hold up time	> 30 ms at 230 V
Output voltage	24 – 28 V
Output current	0.42 A
Temperature range	-25 °C – +71 °C
Derating	> 60 °C
LED display	yes
Dimensions W x H x D	18 x 91 x 56.5
Installation dimensions	for junction boxes and flat control panels
Mounting type	DIN rail mounting
Weight	65 g
Type of connectors	Screw terminal
Connector size	0.2 – 2.5 mm ²
Efficiency	80 %
Approvals	CE

Power supply *wipos* PB1 24-1



Type	Part No.
wipos PB1 24-1	81.000.6310.0
Technical Data	
Input voltage	90 – 264 V AC, 120 – 375 V DC
PFC	not necessary
Hold up time	> 80 ms DIN rail mounting 230 V
Output voltage	24 – 28 V
Output current	1 A
Temperature range	-25 °C – +71 °C
Derating	> 60 °C
LED display	yes
Dimensions W x H x D	35 x 91 x 56.5
Installation dimensions	for junction boxes and flat control panels
Mounting type	DIN rail mounting
Weight	130 g
Type of connectors	Screw terminal
Connector size	0.2 – 2.5 mm ²
Efficiency	85 %
Approvals	CE

wipos Modules

**Power supply wipos
PB1 24-1.5**



Type	Part No.
wipos PB1 24-1.5	81.000.6320.0
Technical Data	
Input voltage	90 – 264 V AC, 120 – 375 V DC
PFC	not necessary
Hold up time	> 100 ms at 230 V
Output voltage	24 – 28 V
Output current	1.5 A
Temperature range	-25 °C – +71 °C
Derating	> 56 °C
LED display	yes
Dimensions W x H x D	53 x 91 x 56.5
Installation dimensions	for junction boxes and flat control panels
Mounting type	DIN rail mounting
Weight	190 g
Type of connectors	Screw terminal
Connector size	0.2 – 2.5 mm ²
Efficiency	84 %
Approvals	CE e@us

**Power supply wipos
PB1 24-2.5**



Type	Part No.
wipos PB1 24-2.5	81.000.6330.0
Technical Data	
Input voltage	90 – 264 V AC, 120 – 375 V DC
PFC	not necessary
Hold up time	> 60 ms at 230 V
Output voltage	24 – 28 V
Output current	2.5 A
Temperature range	-25 °C – +71 °C
Derating	> 60 °C
LED display	yes
Dimensions W x H x D	71 x 91 x 56.5
Installation dimensions	for junction boxes and flat control panels
Mounting type	DIN rail mounting and screw connection
Weight	250 g
Type of connectors	Screw terminal
Connector size	0.2 – 2.5 mm ²
Efficiency	86 %
Approvals	CE e@us

**Power supply wipos
PB1 24-4.2**



Type	Part No.
wipos PB1 24-4.2	81.000.6340.0
Technical Data	
Input voltage	90 – 264 V AC, 120 – 375 V DC
PFC	not necessary
Hold up time	> 60 ms at 230 V
Output voltage	24 – 28 V
Output current	4.2 A
Temperature range	-25 °C – +71 °C
Derating	> 60 °C
LED display	yes
Dimensions W x H x D	90 x 91 x 57
Installation dimensions	for junction boxes and flat control panels
Mounting type	DIN rail mounting and screw connection
Weight	380 g
Type of connectors	Screw terminal
Connector size	0.2 – 2.5 mm ²
Efficiency	89 %
Approvals	CE e@us

