



COMPACT LINE WIPOS PS1 + PS3.

Developers and designers use our extremely space-saving COMPACT LINE wipos PS1 + PS3 power supplies in challenging or harsh environments. Thanks to their highly robust and compact design, they can withstand even the most demanding conditions.



- + Compact design
- + 100 % performance up to 60 °C
- + Extended voltage input for worldwide use
- + 3-phase: 5 A...40 A full performance with 2 phases (excluding at 40 A)
- + PFC technology for high functional safety
- + 120% power boost for 10 s
- + Outdoor installation possible – temperature range -40 °C...+70 °C
- + Parallel connection from 5 A for output increase and redundancy
- + Compensates for voltage drops with adjustable output voltage
- + Ship approval



PERFORMANCE FEATURES

+ AC or DC input	1-phase or 2/3-phase
+ DC output power	120 - 480 W/120 - 960 W
+ Voltage	24 V
+ Output current	1.25 - 20 A/5 - 40 A
+ Power Boost	120 % (10 s)
+ Temperature range	-40 °C...+70 °C
+ Mains failure bridging time	>30 ms



COMPACT LINE · WIPOS PS1 · TECHNICAL DATA



Description	wipos PS1 24-1.25	wipos PS1 24-2.5	wipos PS1 24-5	wipos PS1 24-10	wipos PS1 24-20
Art. No.	81.000.6510.0	81.000.6520.0	81.000.6530.0	81.000.6540.0	81.000.6550.0

Output

Power output	30 W	60 W	120 W	240 W	480 W
Output voltage DC nominal	24 V	24 V	24 V	24 V	24 V
Output voltage DC min.	21.6 V	21.6 V	21.6 V	21.6 V	21.6 V
Output voltage DC max.	27.6 V	27.6 V	27.6 V	27.6 V	27.6 V
Output current	1.25 A	2.5 A	5 A	10 A	20 A

Input

Input voltage DC min.	90 V	90 V	90 V	90 V	90 V
Input voltage DC operating	350 V	350 V	350 V	350 V	350 V

Technical features

PFC	Yes	No	Yes	Yes	Yes
Power Boost	120 % (10 s)	120 % (10 s)	120 % (10 s)	120 % (10 s)	120 % (10 s)
Bridging time	>30 ms	>30 ms	>30 ms	>30 ms	>30 ms
Derating	60°C...70°C: 2.5%/K	60°C...70°C: 2.5%/K	60°C...70°C: 2.5%/K	60°C...70°C: 2.5%/K	60°C...70°C: 2.5%/K
Efficiency	86 %	88 %	89 %	92 %	93 %
MTBF	580,000 h	590,000 h	450,000 h	360,000 h	230,000 h
Overload protection min.-max.	121 - 160 %	121 - 160 %	121 - 160 %	121 - 160 %	121 - 160 %
Modular version	No	No	No	No	No
Parallel connection	Yes	Yes	Yes	Yes	Yes
Switching in series	Yes	Yes	Yes	Yes	Yes
Housing material	Polycarbonate	Polycarbonate	Metal	Metal	Metal

Dimensions

Depth	90 mm	110 mm	122 mm	140 mm	150 mm
Width	32 mm	32 mm	40 mm	60 mm	95 mm
Height	90 mm	90 mm	125 mm	125 mm	125 mm
Weight	195 g	260 g	620 g	900 g	1.5 kg

GENERAL TECHNICAL DATA FOR THE SERIES

Number of phases	Single phase power supply
Terminal type	Screw connection
Rail mounting possible	Yes
Operating temperature min.-max.	-40 °C...+70 °C
Relative humidity min.-max.	0 - 95 %
Storage temperature / transport min.-max.	-40 °C...+85 °C
Protection class	IP20
Certificates / Approvals	CE, cULus, cRUus, HAZ., Germanischer Lloyd

COMPACT LINE · WIPOS PS3 · TECHNICAL DATA



Description	wipos PS3 24-5	wipos PS3 24-10	wipos PS3 24-20	wipos PS3 24-40
Art. No.	81.000.6560.0	81.000.6570.0	81.000.6580.0	81.000.6590.0

Output

Power output	120 W	240 W	480 W	960 W
Output voltage DC nominal	24 V	24 V	24 V	24 V
Output voltage DC min.	22.5 V	22.5 V	22.5 V	22.5 V
Output voltage DC max.	29.5 V	29.5 V	29.5 V	29.5 V
Output current	5 A	10 A	20 A	40 A

Input

Input voltage DC min.	450 V	450 V	450 V	450 V
Input voltage DC operating	810 V	810 V	810 V	810 V
Input voltage AC min.	320 V	320 V	320 V	320 V
Input voltage AC operating	576 V	576 V	576 V	576 V

Technical features

PFC	No	No	No	No
Power Boost	120 % (10 s)	120 % (10 s)	120 % (10 s)	120 % (10 s)
Bridging time	>30 ms	>30 ms	>30 ms	>30 ms
Derating	60 °C...70 °C: 2.5 %/K	60 °C...70 °C: 2.5 %/K	60 °C...70 °C: 2.5 %/K	60 °C...70 °C: 2.5 %/K
Efficiency	89 %	89 %	91 %	92 %
MTBF	390,000 h	350,000 h	280,000 h	260,000 h
Overload protection min.-max.	120 - 130 %	120 - 130 %	120 - 130 %	120 - 130 %
Modular version	No	No	No	No
Parallel connection	No	No	No	No
Switching in series	No	No	No	No
Housing material	Metal	Metal	Metal	Metal

Dimensions

Depth	122.2 mm	150 mm	150 mm	180 mm
Width	40 mm	60 mm	95 mm	135 mm
Height	125 mm	125 mm	125 mm	125 mm
Weight	700 g	1 kg	1.6 kg	2.7 kg

GENERAL TECHNICAL DATA FOR THE SERIES

Number of phases	3 phase power supply
Terminal type	Screw connection
Rail mounting possible	Yes
Operating temperature min.-max.	-40 °C...+70 °C
Relative humidity min.-max.	0 - 95 %
Storage temperature / transport min.-max.	-40 °C...+85 °C
Protection class	IP20
Certificates / Approvals	CE, cULus, cRUus, HAZ., Germanischer Lloyd