

High-end-power supplies and future proofed PROtop: Reliable, powerful, efficient and communication-capable

A Production processes constantly need to be made more efficient. As well as performance, energy efficiency and sustainability are also playing an increasingly important role in cutting-edge industry. PROtop power supplies combine excellent performance data with exemplary sustainability, which has a positive impact on the productivity of the entire production facility.

PROtop offers a number of advantages that give you a real competitive edge. These include the permanent reduction of energy costs thanks to high efficiencies as well as the increase in plant availability due to long service life and high MTBF values. In addition, there is a high functional density due to the extremely space-saving designs.

PROtop can achieve significant savings compared to conventional power supply units. Its increased efficiency saves an average of 50 kWh per day in a medium-sized production facility with approx. 100 PROtop power supplies working in three-shift operation. This adds up to over 15,000 kWh a year and also improves the facility's carbon footprint. The service life, which is twice as long as that of standard power supplies, also sustainably reduces the costs of repurchase and exchange.

Also in the
protection class
IP65
available





Direct parallel switching without diode modules thanks to integrated ORing MOSFETs for reduced system costs



Sustainable and innovative device concept

- Optimum efficiency levels (up to 95.3%) for sustainable energy savings
- High MTBF values (> 1,000,000 h) for permanently high system availability

Communication modules can be adapted without tools.



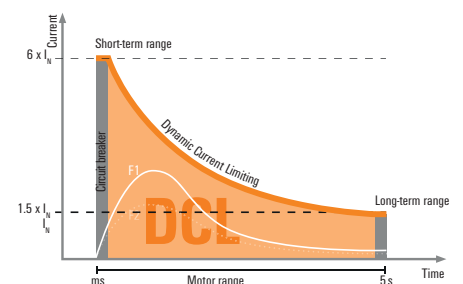
Outstanding peak load reserves

- High dynamic range thanks to unique DCL (dynamic current limiting) technology
- Continuous peak load reserves from millisecond to second range
- Ideal for reliably triggering circuit breakers or for powerful motor starts



Highly future-proof

- Complete data transparency through to the cloud
- Remote controllability for integration into machine control systems
- CANopen and IO-Link communication protocols



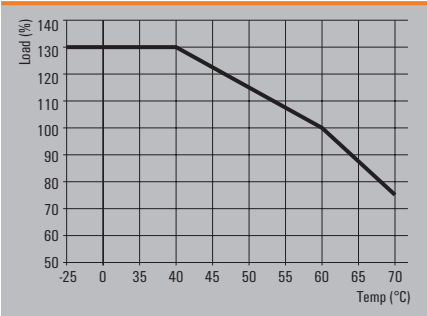
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- DCL technology for an excellent dynamic range
- High energy efficiency (up to 95.4 % efficiency)
- Mode of operation: single or parallel operation and adjustable short-circuit response (continuous current or switch-off)
- Useful life of up to 15 years, MTBF > 1 000 000 h.
- Extremely slim design
- Time-saving PUSH IN connection technology



Derating curve



Technical data

General data	
Insulation voltage input / earth	3.2 kV
Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	3.5 kV
Earth leakage current, max.	3.5 mA
Series switching capability	Yes
Ambient temperature (operational) / Storage temperature	-25 °C...70 °C / -40 °C...85 °C
Humidity at operating temperature	5...95 %, no condensation
Protection class / Pollution degree	I, with PE connection / 2
MTBF	> 1.000.000 h according IEC 1709 (SN29500)
Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load
Conformal coating	No
EMC / shock / vibration	
Interference immunity test acc. to	EN 55032:2015, EN 55024:2010/A1:2015, EN 55035:2017, EN 61000-3-2:2014, EN 61000-6-1:2007, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011, EN 61000-6-4:2007/A1:2011
Shock	30 g in all directions
Resistance to vibration	2.3 g (on DIN rail), 4 g (with direct mounting)
Electrical safety (applied standards)	
Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	According to EN 61558-2-16
For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV according to EN 62368-1, PELV according to EN 60204-1
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

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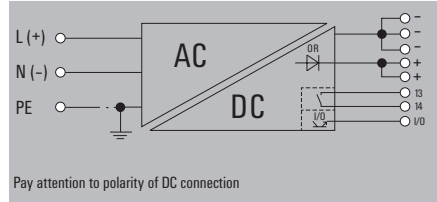
- 1-phase power supplies

PRO TOP1 72 W 24 V 3 A

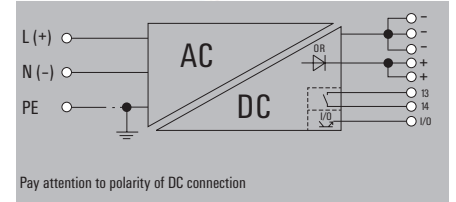
PRO TOP1 120 W 24 V 5 A



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Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nom}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	3 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	89%
Power factor (approx.)	> 0.5
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 35 / 130 mm
Net weight	650 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input		Output	
PUSH IN with actuator	PUSH IN with actuator		
3 for L/N/PE	5 (+ / - / -)		
0.5 / 1.5	0.2 / 2.5		
0.5 / 2.5	0.2 / 2.5		
20 / 12	26 / 12		

Input		Output	
PUSH IN with actuator	PUSH IN with actuator		
3 for L/N/PE	5 (+ / - / -)		
0.5 / 1.5	0.2 / 2.5		
0.5 / 2.5	0.2 / 2.5		
20 / 12	26 / 12		

Connection data

Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Note	

Input		Output	
PUSH IN with actuator	PUSH IN with actuator		
3 for L/N/PE	5 (+ / - / -)		
0.5 / 1.5	0.2 / 2.5		
0.5 / 2.5	0.2 / 2.5		
20 / 12	26 / 12		

Input		Output	
PUSH IN with actuator	PUSH IN with actuator		
3 for L/N/PE	5 (+ / - / -)		
0.5 / 1.5	0.2 / 2.5		
0.5 / 2.5	0.2 / 2.5		
20 / 12	26 / 12		

Ordering data

Type	Qty.	Order No.
PRO TOP1 72W 24V 3A	1	2466850000

Type	Qty.	Order No.
PRO TOP1 72W 24V 3A	1	2466850000

Type	Qty.	Order No.
PRO TOP1 120W 24V 5A	1	2466870000

Note

Current technical data at catalog.weidmuller.com

Current technical data at catalog.weidmuller.com

Current technical data at catalog.weidmuller.com

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- 1-phase power supplies

PRO TOP1 240 W 24 V 10 A

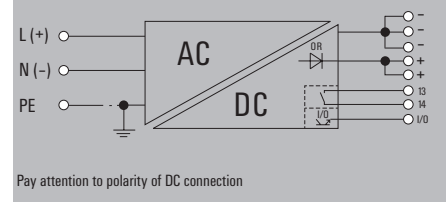
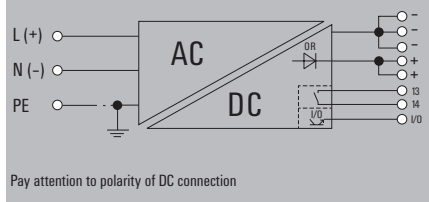
PRO TOP1 480 W 24 V 20 A



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Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nom}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	92 %
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 39 / 130 mm
Net weight	1050 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input		Output	
100 - 240 V AC / 120 - 340 V DC		24 V DC ± 1 %	
85...277 V AC		22.5...28.8 V	
45...65 Hz		150 % (5 s); 600 % (15 ms)	
80 ... 410 V DC		< 50 mVss @ U _{Nom} , Full Load	
Yes / max. 5 A		130% permanent at ≤ 40°C, 150 % (5 s)	
		10 A @ 60 °C	
		> 60°C (2.5% / 1°C)	
		Yes	
		92 %	
		> 0.9	
		> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	
		Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error	
		yes, max 10	
		125 / 39 / 130 mm	
		1050 g	
		ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV	

Input		Output	
100 - 240 V AC / 120 - 340 V DC		24 V DC ± 1 %	
85...277 V AC		22.5...28.8 V	
45...65 Hz		150 % (5 s); 500 % (15 ms)	
80 ... 410 V DC		< 50 mVss @ U _{Nom} , Full Load	
Yes / max. 5 A		130% permanent at ≤ 40°C, 150 % (5 s)	
		20 A @ 60 °C	
		> 60°C (2.5% / 1°C)	
		Yes	
		93%	
		> 0.9	
		> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	
		Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error	
		yes, max 10	
		125 / 68 / 130 mm	
		1520 g	
		ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV	

Connection data	
Connection system	PUSH IN with actuator
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.5 / 1.5 mm ²
Wire cross-section, flexible min/max	0.5 / 2.5 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 12
Note	

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ / - / -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Input	Output
PUSH IN	PUSH IN
3 for L/N/PE	5 (+ / - / -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Ordering data

Type	Qty.	Order No.
PRO TOP1 240W 24V 10A	1	2466880000

Type	Qty.	Order No.
PRO TOP1 240W 24V 10A	1	2466880000

Type	Qty.	Order No.
PRO TOP1 480W 24V 20A	1	2466890000

Note

Current technical data at catalog.weidmuller.com

Current technical data at catalog.weidmuller.com

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- 1-phase power supplies

PRO TOP1 960 W 24 V 40 A

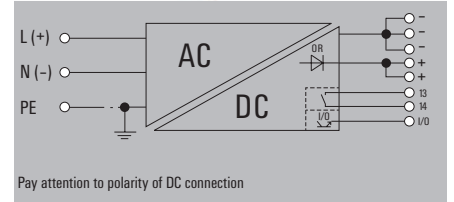
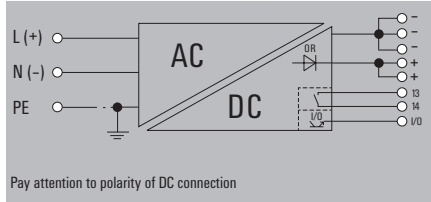
PRO TOP1 120 W 12 V 10 A



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Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	40 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	94%
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 124 / 130 mm
Net weight	3400 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Rated output voltage	12 V DC ± 1 %
Output voltage	11...15 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	90%
Power factor (approx.)	> 0.85
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 35 / 130 mm
Net weight	850 g
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	12 V DC ± 1 %
Output voltage	11...15 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	90%
Power factor (approx.)	> 0.85
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 35 / 130 mm
Net weight	850 g
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	PUSH IN
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.75 / 16 mm ²
Wire cross-section, flexible min/max	0.75 / 16 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 4
Note	

Input	Output
PUSH IN	PUSH IN
3 for L/N/PE	5 (+ / - / -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ / - / -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Ordering data

Type	Qty.	Order No.
PRO TOP1 960W 24V 40A	1	2466900000
Note		
Current technical data at catalog.weidmuller.com		

Type	Qty.	Order No.
PRO TOP1 120W 12V 10A	1	2466910000
Note		
Current technical data at catalog.weidmuller.com		

Type	Qty.	Order No.
PRO TOP1 120W 12V 10A	1	2466910000
Note		
Current technical data at catalog.weidmuller.com		

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- 1-phase power supplies

PRO TOP1 480 W 48 V 10 A

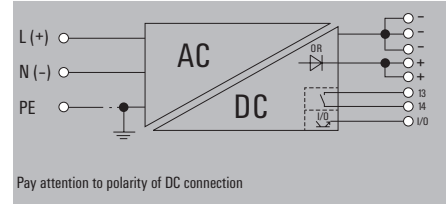
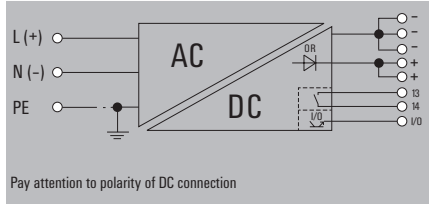
PRO TOP1 960 W 48 V 20 A



Similar to illustration



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Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 100 mV _{pp}
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	93%
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 68 / 130 mm
Net weight	1520 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 100 mV _{pp}
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	20 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	94%
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 124 / 130 mm
Net weight	3382 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 100 mV _{pp}
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	20 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	94%
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 124 / 130 mm
Net weight	3382 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	PUSH IN
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.2 / 10 mm ²
Wire cross-section, flexible min/max	0.2 / 6 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 8
Note	

Input	Output
PUSH IN	PUSH IN
3 for L/N/PE	5 (+ + / - -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Input	Output
PUSH IN	PUSH IN
3 for L/N/PE	5 (+ + / - -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Ordering data

Type	Qty.	Order No.
PRO TOP1 480W 48V 10A	1	2467030000
Note		
Current technical data at catalog.weidmueller.com		

Type	Qty.	Order No.
PRO TOP1 960W 48V 20A	1	2466920000
Note		
Current technical data at catalog.weidmueller.com		

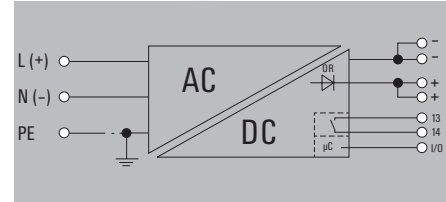
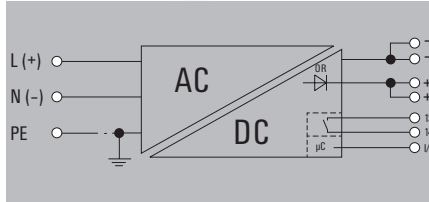
Type	Qty.	Order No.
PRO TOP1 960W 48V 20A	1	2466920000
Note		
Current technical data at catalog.weidmueller.com		

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- 1-phase power supplies with output-side screw flange

PRO TOP1 72W 24V 3A F

PRO TOP1 120W 12V 10A F



Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	3 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	89%
Power factor (approx.)	> 0.5
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 35 / 130 mm
Net weight	650 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input		Output	
PUSH IN with actuator	PUSH IN with actuator	PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	4 (++ / -)	3 for L/N/PE	4 (++ / -)
0.5 / 1.5	0.2 / 2.5	0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5	0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12	20 / 12	26 / 12

Input		Output	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC	Rated output voltage	12 V DC ± 1 %
Input voltage range AC	85...277 V AC	Output voltage	11...15 V
Frequency range AC	45...65 Hz	DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
DC input voltage range	80 ... 410 V DC	Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Input fuse (internal) / Inrush current	Yes / max. 5 A	Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Derating	> 60°C (2.5% / 1°C)	Nominal output current for U _{nom}	10 A @ 60 °C
Series switching capability	Yes	LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Degree of efficiency	90%	Parallel connection option	yes, max 10
Power factor (approx.)	> 0.85	Depth x width x height	125 / 35 / 130 mm
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Net weight	850 g
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV	Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data

Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Note	

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	4 (++ / -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	4 (++ / -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Ordering data

Type	Qty.	Order No.
PRO TOP1 72W 24V 3A F	1	2568970000

Type	Qty.	Order No.
PRO TOP1 120W 12V 10A F	1	2569000000

Type	Qty.	Order No.
PRO TOP1 120W 12V 10A F	1	2569000000

Note

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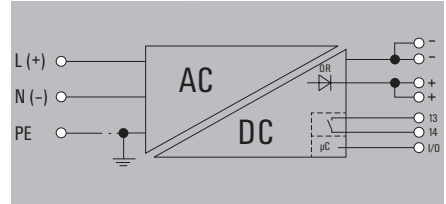
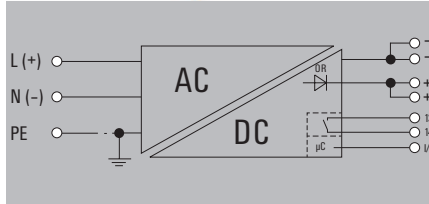
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- 1-phase power supplies with output-side screw flange

PRO TOP1 120W 24V 5A F

PRO TOP1 240W 24V 10A F



Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	48...410 V DC (Derating 40% @ 48 V DC)
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	5 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	91%
Power factor (approx.)	> 0.85
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 35 / 130 mm
Net weight	850 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input		Output	
PUSH IN with actuator	PUSH IN with actuator		
3 for L/N/PE	4 (++ / -)		
0.5 / 1.5 mm ²	0.2 / 2.5 mm ²		
0.5 / 2.5 mm ²	0.2 / 2.5 mm ²		
20 / 12	26 / 12		

Input		Output	
PUSH IN with actuator	PUSH IN with actuator		
3 for L/N/PE	4 (++ / -)		
0.5 / 1.5 mm ²	0.2 / 2.5 mm ²		
0.5 / 2.5 mm ²	0.2 / 2.5 mm ²		
20 / 12	26 / 12		

Connection data

Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Note	

Input		Output	
PUSH IN with actuator	PUSH IN with actuator		
3 for L/N/PE	4 (++ / -)		
0.5 / 1.5 mm ²	0.2 / 2.5 mm ²		
0.5 / 2.5 mm ²	0.2 / 2.5 mm ²		
20 / 12	26 / 12		

Input		Output	
PUSH IN with actuator	PUSH IN with actuator		
3 for L/N/PE	4 (++ / -)		
0.5 / 1.5 mm ²	0.2 / 2.5 mm ²		
0.5 / 2.5 mm ²	0.2 / 2.5 mm ²		
20 / 12	26 / 12		

Ordering data

Type	Qty.	Order No.
PRO TOP1 120W 24V 5A F	1	2568980000

Type	Qty.	Order No.
PRO TOP1 120W 24V 5A F	1	2568980000

Type	Qty.	Order No.
PRO TOP1 240W 24V 10A F	1	2568990000

Note

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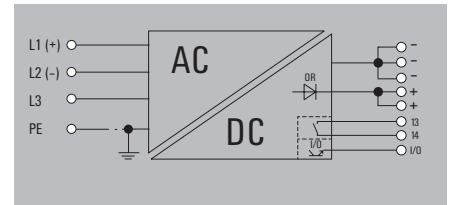
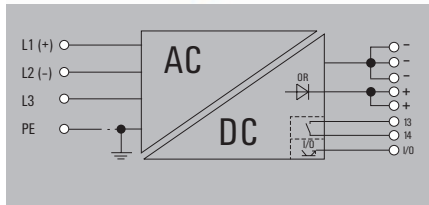
Current technical data at catalog.weidmueller.com

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- 3-phase power supplies

PRO TOP3 120 W 24 V 5 A

PRO TOP3 240 W 24 V 10 A



Technical data

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	5 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	89%
Power factor (approx.)	> 0.4 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 39 / 130 mm
Net weight	967 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	93%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 50 / 130 mm
Net weight	1120 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	93%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 50 / 130 mm
Net weight	1120 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	PUSH IN with actuator
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.5 / 1.5 mm ²
Wire cross-section, flexible min/max	0.5 / 2.5 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 12
Note	

Input	Output
PUSH IN with actuator	PUSH IN with actuator
4 for L1/L2/L3/PE	5 (+ + / - -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Input	Output
PUSH IN with actuator	PUSH IN with actuator
4 for L1/L2/L3/PE	5 (+ + / - -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Ordering data

Type	Qty.	Order No.
PRO TOP3 120W 24V 5A	1	2467060000

Type	Qty.	Order No.
PRO TOP3 120W 24V 5A	1	2467060000

Type	Qty.	Order No.
PRO TOP3 240W 24V 10A	1	2467080000

Note	Current technical data at catalog.weidmueller.com
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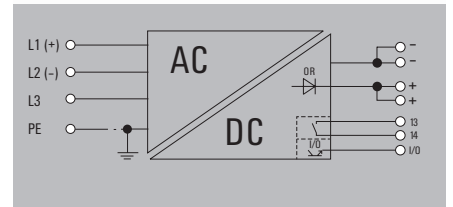
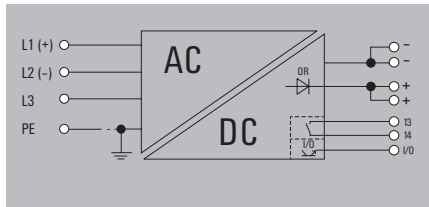
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- 3-phase power supplies

PRO TOP3 480 W 24 V 20 A

PRO TOP3 960 W 24 V 40 A



Technical data

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	20 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	94%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 68 / 130 mm
Net weight	1650 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	40 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	95,3 %
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	175 / 89 / 130 mm
Net weight	2490 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	40 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	95,3 %
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	175 / 89 / 130 mm
Net weight	2490 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	PUSH IN
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.2 / 10 mm ²
Wire cross-section, flexible min/max	0.2 / 6 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 8
Note	

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Ordering data

Type	Qty.	Order No.
PRO TOP3 480W 24V 20A	1	2467100000

Type	Qty.	Order No.
PRO TOP3 480W 24V 20A	1	2467100000

Type	Qty.	Order No.
PRO TOP3 960W 24V 40A	1	2467120000

Note

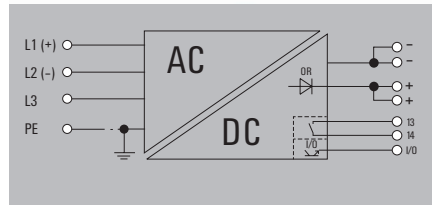
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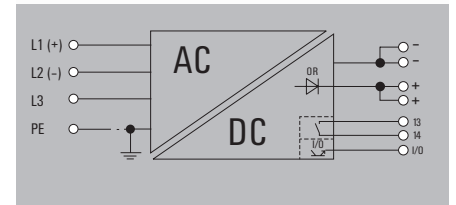
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- 3-phase power supplies

PRO TOP3 480 W 48 V 10 A



PRO TOP3 960 W 48 V 20 A



Technical data

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	94%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 68 / 130 mm
Net weight	1645 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	20 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	95,3 %
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	175 / 89 / 130 mm
Net weight	2490 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	20 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	95,3 %
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	175 / 89 / 130 mm
Net weight	2490 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	PUSH IN
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.2 / 10 mm ²
Wire cross-section, flexible min/max	0.2 / 6 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 8
Note	

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Ordering data

Type	Qty.	Order No.
PRO TOP3 480W 48V 10A	1	2467150000

Type	Qty.	Order No.
PRO TOP3 480W 48V 10A	1	2467150000

Type	Qty.	Order No.
PRO TOP3 960W 48V 20A	1	2467170000

Note

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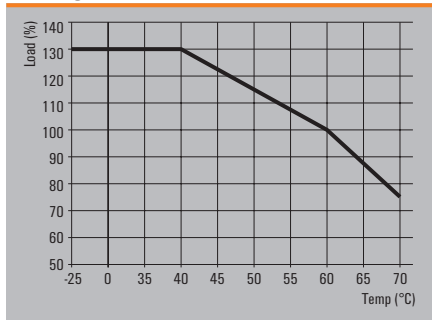
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connectPower PROtop

- DCL technology for an excellent dynamic range
- High energy efficiency (up to 95.4 % efficiency)
- Mode of operation: single or parallel operation and adjustable short-circuit response (continuous current or switch-off)
- Useful life of up to 15 years, MTBF > 1 000 000 h.
- Extremely slim design
- Time-saving PUSH IN connection technology



Derating curve



Technical data

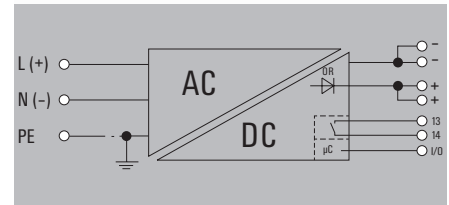
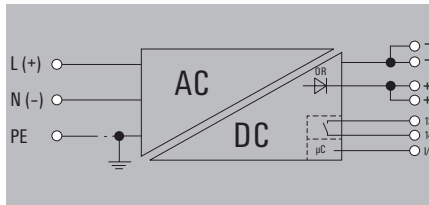
General data	
Insulation voltage input / earth	3.2 kV
Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	3.5 kV
Earth leakage current, max.	3.5 mA
Series switching capability	Yes
Ambient temperature (operational) / Storage temperature	-40 °C...70 °C / -40 °C...85 °C
Humidity at operating temperature	5...100 % no condensation
Protection class / Pollution degree	I, with PE connection / 2
MTBF	> 1.000.000 h according IEC 1709 (SN29500)
Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load
Conformal coating	Yes
EMC / shock / vibration	
Interference immunity test acc. to	EN 55032:2015, EN 55024:2010/A1:2015, EN 55035:2017, EN 61000-3-2:2014, EN 61000-6-1:2007, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011, EN 61000-6-4:2007/A1:2011
Shock	30 g in all directions
Resistance to vibration	2.3 g (on DIN rail), 4 g (with direct mounting)
Electrical safety (applied standards)	
Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	According to EN 61558-2-16
For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV according to EN 62368-1, PELV according to EN 60204-1
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

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- 1-phase power supplies

PRO TOP1 72W 24V 3A CO

PRO TOP1 120W 24V 5A EX



Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	3 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	89%
Power factor (approx.)	> 0.5
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 35 / 130 mm
Net weight	650 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	5 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	91%
Power factor (approx.)	> 0.85
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 35 / 130 mm
Net weight	850 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC (Derating 40% @ 48 V DC)
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	5 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	91%
Power factor (approx.)	> 0.85
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 35 / 130 mm
Net weight	850 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX

Connection data	
Connection system	Clamping yoke
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.2 / 4 mm ²
Wire cross-section, flexible min/max	0.2 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	30 / 12
Note	

Input	Output
Clamping yoke	Clamping yoke connection
3 for L/N/PE	5 (+ + / - -)
0.2 / 4	0.2 / 4
0.2 / 4	0.2 / 4
30 / 12	30 / 12

Input	Output
Clamping yoke	Clamping yoke connection
3 for L/N/PE	5 (+ + / - -)
0.2 / 4	0.2 / 4
0.2 / 4	0.2 / 4
30 / 12	30 / 12

Ordering data

Type	Qty.	Order No.
PRO TOP1 72W 24V 3A CO	1	2466970000
Note		

Type	Qty.	Order No.
PRO TOP1 120W 24V 5A EX	1	2466980000
Note		

Type	Qty.	Order No.
PRO TOP1 120W 24V 5A EX	1	2466980000
Note		

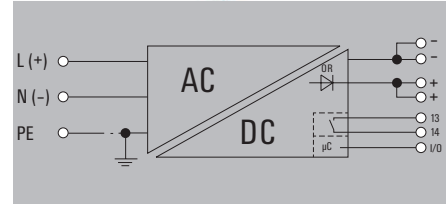
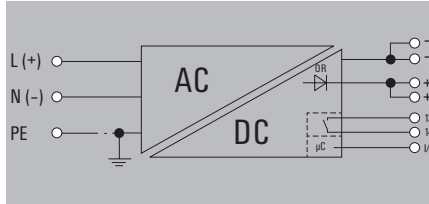
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- 1-phase power supplies

PRO TOP1 240W 24V 10A EX

PRO TOP1 480W 24V 20A EX



Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	92 %
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 39 / 130 mm
Net weight	1.05 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX

Input		Output	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC	Rated output voltage	24 V DC ± 1 %
Input voltage range AC	85...277 V AC	Output voltage	22.5...28.8 V
Frequency range AC	45...65 Hz	DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
DC input voltage range	80 ... 410 V DC	Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Input fuse (internal) / Inrush current	Yes / max. 5 A	Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Derating	> 60°C (2.5% / 1°C)	Nominal output current for U _{nom}	10 A @ 60 °C
Series switching capability	Yes	LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Degree of efficiency	92 %	Parallel connection option	yes, max 10
Power factor (approx.)	> 0.9	Depth x width x height	125 / 39 / 130 mm
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Net weight	1.05 g
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error	Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX

Input		Output	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC	Rated output voltage	24 V DC ± 1 %
Input voltage range AC	85...277 V AC	Output voltage	22.5...28.8 V
Frequency range AC	45...65 Hz	DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
DC input voltage range	80 ... 410 V DC	Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Input fuse (internal) / Inrush current	Yes / max. 5 A	Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Derating	> 60°C (2.5% / 1°C)	Nominal output current for U _{nom}	20 A @ 60 °C
Series switching capability	Yes	LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Degree of efficiency	93%	Parallel connection option	yes, max 10
Power factor (approx.)	> 0.9	Depth x width x height	125 / 68 / 130 mm
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Net weight	1520 g
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error	Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX

Connection data	
Connection system	Clamping yoke
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.2 / 4 mm ²
Wire cross-section, flexible min/max	0.2 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	30 / 12
Note	

Input	Output
Clamping yoke	Clamping yoke connection
3 for L/N/PE	5 (+ + / - -)
0.2 / 4	0.2 / 4
0.2 / 4	0.2 / 4
30 / 12	30 / 12

Input	Output
Clamping yoke	Clamping yoke connection
3 for L/N/PE	5 (+ + / - -)
0.18 / 6	0.2 / 6
0.22 / 4	0.5 / 6
26 / 10	24 / 8

Ordering data

Type	Qty.	Order No.
PRO TOP1 240W 24V 10A EX	1	2466990000
Note		

Type	Qty.	Order No.
PRO TOP1 240W 24V 10A EX	1	2466990000

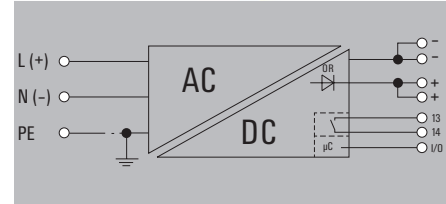
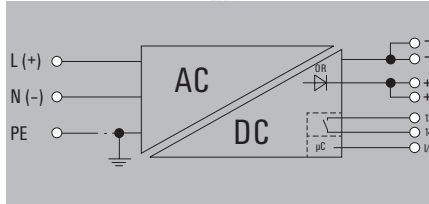
Type	Qty.	Order No.
PRO TOP1 480W 24V 20A EX	1	2467000000
Note		

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- 1-phase power supplies

PRO TOP1 480W 48V 10A EX

PRO TOP1 960W 48V 20A CO



Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 100 mV _{pp}
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	93%
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 68 / 130 mm
Net weight	1520 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX

Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 100 mV _{pp}
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	93%
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 68 / 130 mm
Net weight	1520 g
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 100 mV _{pp}
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	20 A @ 60 °C
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	94%
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 139 / 130 mm
Net weight	3382 g
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	Clamping yoke
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Note	

Input	Output
Clamping yoke	Clamping yoke connection
3 for L/N/PE	5 (+ + / - -)
0.18 / 6	0.2 / 6
0.22 / 4	0.5 / 6
26 / 10	24 / 8

Input	Output
Clamping yoke	Clamping yoke connection
3 for L/N/PE	5 (+ + / - -)
0.18 / 6	0.2 / 16
0.22 / 4	6 / 16
26 / 10	22 / 6

Ordering data

Type	Qty.	Order No.
PRO TOP1 480W 48V 10A EX	1	2467040000
Note		

Type	Qty.	Order No.
PRO TOP1 960W 48V 20A CO	1	2467050000
Note		

Type	Qty.	Order No.
PRO TOP1 960W 48V 20A CO	1	2467050000
Note		

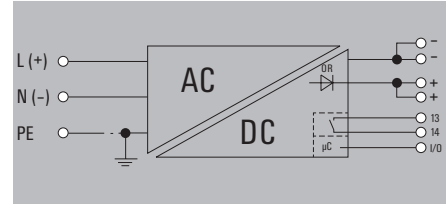
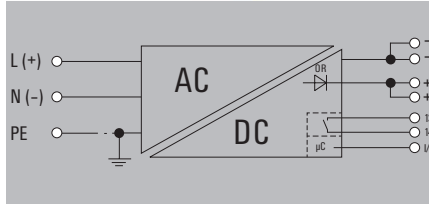
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- 1-phase power supplies

PRO TOP1 960W 24V 40A EX

PRO TOP1 120W 12V 10A EX



Technical data

Input	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80 ... 410 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nom}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	40 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	94%
Power factor (approx.)	> 0.9
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning >90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 139 / 130 mm
Net weight	3382 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX

Input		Output	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC	Rated output voltage	24 V DC ± 1 %
Input voltage range AC	85...277 V AC	Output voltage	22.5...28.8 V
Frequency range AC	45...65 Hz	DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
DC input voltage range	80 ... 410 V DC	Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Input fuse (internal) / Inrush current	Yes / max. 15 A	Reserve capacity @ U _{Nom}	130% permanent at ≤ 40°C, 150 % (5 s)
Derating	> 60°C (2.5% / 1°C)	Nominal output current for U _{Nom}	40 A @ 60 °C
Series switching capability	Yes	Parallel connection option	yes, max 10
Degree of efficiency	94%	Depth x width x height	125 / 139 / 130 mm
Power factor (approx.)	> 0.9	Net weight	3382 g
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX
LED green/red	Green: Operation (failure-free), Flashing green: advance warning >90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error		

Input		Output	
Rated input voltage	100 - 240 V AC / 120 - 340 V DC	Rated output voltage	12 V DC ± 1 %
Input voltage range AC	85...277 V AC	Output voltage	11...15 V
Frequency range AC	45...65 Hz	DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
DC input voltage range	80 ... 410 V DC	Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Input fuse (internal) / Inrush current	Yes / max. 5 A	Reserve capacity @ U _{Nom}	130% permanent at ≤ 40°C, 150 % (5 s)
Derating	> 60°C (2.5% / 1°C)	Nominal output current for U _{Nom}	10 A @ 60 °C
Series switching capability	Yes	Parallel connection option	yes, max 10
Degree of efficiency	90%	Depth x width x height	125 / 35 / 130 mm
Power factor (approx.)	> 0.85	Net weight	850 g
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; IECEXTUEV; LLOYDSREG; RINA; TUEV; TUEVSATEX
LED green/red	Green: Operation (failure-free), Flashing green: advance warning >90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error		

Connection data	
Connection system	Clamping yoke
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Note	

Input	Output
Clamping yoke	Clamping yoke connection
3 for L/N/PE	5 (+ + / - -)
0.18 / 6	0.2 / 16
0.22 / 4	6 / 16
26 / 10	22 / 6

Input	Output
Clamping yoke	Clamping yoke connection
3 for L/N/PE	5 (+ + / - -)
0.2 / 4	0.2 / 4
0.2 / 4	0.2 / 4
30 / 12	30 / 12

Ordering data

Type	Qty.	Order No.
PRO TOP1 960W 24V 40A EX	1	2467010000
Note		

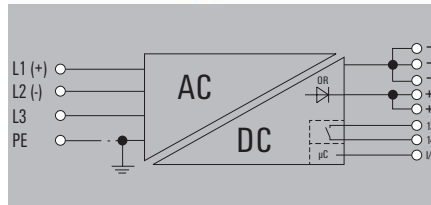
Type	Qty.	Order No.
PRO TOP1 120W 12V 10A EX	1	2467020000
Note		

Type	Qty.	Order No.
PRO TOP1 120W 12V 10A EX	1	2467020000
Note		

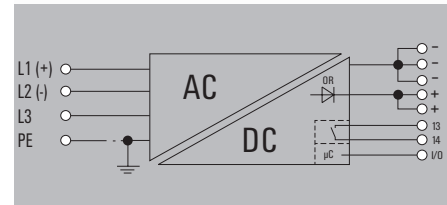
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- 3-phase power supplies

PRO TOP3 120W 24V 5A CO



PRO TOP3 240W 24V 10A CO



Technical data

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	5 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	89%
Power factor (approx.)	> 0.4 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning >90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 39 / 130 mm
Net weight	967 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	93%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning >90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 50 / 130 mm
Net weight	1120 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 600 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{Nom}	10 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	93%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning >90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 50 / 130 mm
Net weight	1120 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	PUSH IN with actuator
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.5 / 1.5 mm ²
Wire cross-section, flexible min/max	0.5 / 2.5 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 12
Note	

Input		Output	
Connection system	PUSH IN with actuator	Connection system	PUSH IN with actuator
Number of terminals	4 for L1/L2/L3/PE	Number of terminals	5 (+ + / - -)
Wire cross-section, rigid min/max	0.5 / 1.5 mm ²	Wire cross-section, rigid min/max	0.2 / 2.5 mm ²
Wire cross-section, flexible min/max	0.5 / 2.5 mm ²	Wire cross-section, flexible min/max	0.2 / 2.5 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 12	Wire cross-section, AWG/kcmil min/max	26 / 12
Note		Note	

Input		Output	
Connection system	PUSH IN with actuator	Connection system	PUSH IN with actuator
Number of terminals	4 for L1/L2/L3/PE	Number of terminals	5 (+ + / - -)
Wire cross-section, rigid min/max	0.5 / 1.5 mm ²	Wire cross-section, rigid min/max	0.2 / 2.5 mm ²
Wire cross-section, flexible min/max	0.5 / 2.5 mm ²	Wire cross-section, flexible min/max	0.2 / 2.5 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 12	Wire cross-section, AWG/kcmil min/max	26 / 12
Note		Note	

Ordering data

Type	Qty.	Order No.
PRO TOP3 120W 24V 5A CO	1	2467070000

Type	Qty.	Order No.
PRO TOP3 120W 24V 5A CO	1	2467070000

Type	Qty.	Order No.
PRO TOP3 240W 24V 10A CO	1	2467090000

Note

Note

Note

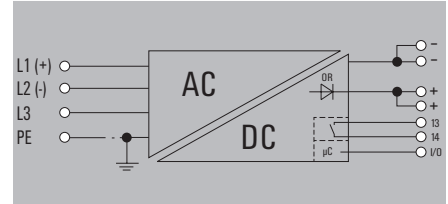
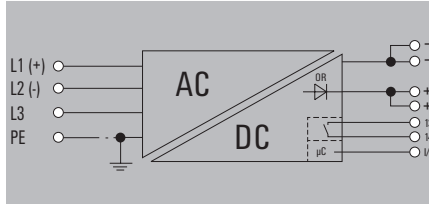
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- 3-phase power supplies

PRO TOP3 480W 24V 20A CO

PRO TOP3 960W 24V 40A CO



Technical data

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	20 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	94%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 68 / 130 mm
Net weight	1650 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	40 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	95,3 %
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	175 / 89 / 130 mm
Net weight	2490 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	22.5...28.8 V
DCL - peak load reserve	150 % (5 s); 400 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	40 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	Yes
Degree of efficiency	95,3 %
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	175 / 89 / 130 mm
Net weight	2490 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	PUSH IN
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.2 / 10 mm ²
Wire cross-section, flexible min/max	0.2 / 6 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 8
Note	

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Ordering data

Type	Qty.	Order No.
PRO TOP3 480W 24V 20A CO	1	2467110000
Note		

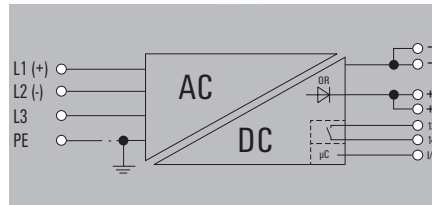
Type	Qty.	Order No.
PRO TOP3 480W 24V 20A CO	1	2467110000
Note		

Type	Qty.	Order No.
PRO TOP3 960W 24V 40A CO	1	2467130000
Note		

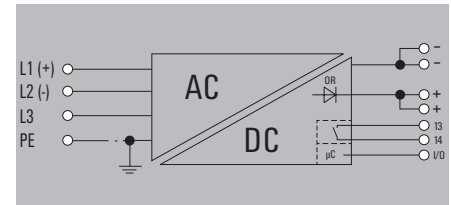
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- 3-phase power supplies

PRO TOP3 960W 36V 26,6A CO



PRO TOP3 480W 48V 10A CO



Technical data

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	36 V DC ± 1 %
Output voltage	33...44 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nenn} , Full Load
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	26.6 A @ 60 °C
General data	
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	95,3 %
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	175 / 89 / 130 mm
Net weight	2490 g
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 100 mV ss @ 48 V DC, I Nenn
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	94%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 68 / 130 mm
Net weight	1645 g
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Input	
Rated input voltage	3x 400...3x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Input fuse (internal) / Inrush current	No / Max. 10 A
Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	45...56 V
DCL - peak load reserve	150 % (5 s); 500 % (15 ms)
Residual ripple, breaking spikes	< 100 mV ss @ 48 V DC, I Nenn
Reserve capacity @ U _{Nominal}	130% permanent at ≤ 40°C, 150 % (5 s)
Nominal output current for U _{nom}	10 A @ 60 °C
Derating	> 60°C (2.5% / 1°C)
Series switching capability	No
Degree of efficiency	94%
Power factor (approx.)	> 0.75 @ 3x400 V AC
AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Parallel connection option	yes, max 10
Depth x width x height	125 / 68 / 130 mm
Net weight	1645 g
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	PUSH IN
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.75 / 16 mm ²
Wire cross-section, flexible min/max	0.75 / 16 mm ²
Wire cross-section, AWG/kcmil min/max	20 / 4
Note	

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Ordering data

Type	Qty.	Order No.
PRO TOP3 960W 36V 26,6A CO	1	2467140000
Note		

Type	Qty.	Order No.
PRO TOP3 960W 36V 26,6A CO	1	2467140000

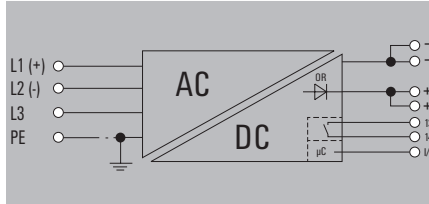
Type	Qty.	Order No.
PRO TOP3 480W 48V 10A CO	1	2467160000
Note		

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PRO TOP3 960W 48V 20A CO



Technical data

Input	
Rated input voltage	
Input voltage range AC	
Frequency range AC	
DC input voltage range	
Input fuse (internal) / Inrush current	
Output	
Rated output voltage	
Output voltage	
DCL - peak load reserve	
Residual ripple, breaking spikes	
Reserve capacity @ U_{Nominal}	
Nominal output current for U_{nom}	
General data	
Derating	
Series switching capability	
Degree of efficiency	
Power factor (approx.)	
AC failure bridging time @ I_{nom}	
LED green/red	
Parallel connection option	
Depth x width x height	
Net weight	
Approvals	
Approvals	

3x 400...3x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
No / Max. 10 A
48 V DC \pm 1 %
45...56 V
150 % (5 s); 400 % (15 ms)
< 100 mV ss @ 48 V DC, I Nenn
130% permanent at \leq 40°C, 150 % (5 s)
20 A @ 60 °C
> 60°C (2.5% / 1°C)
No
95,3 %
> 0.75 @ 3x400 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
yes, max 10
175 / 89 / 130 mm
2490 g
ABS; BURVER; cULus; cULusEX; DNVGL; EAC; LLOYDSREG; RINA; TUEV

Connection data	
Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Note	

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++ / -)
0.75 / 16	0.75 / 2.5
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Ordering data

Type	Qty.	Order No.
PRO TOP3 960W 48V 20A CO	1	2467180000
Note		

Type	Qty.	Order No.
PRO TOP3 960W 48V 20A CO	1	2467180000
Note		