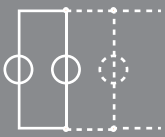


AC/DC**International use**

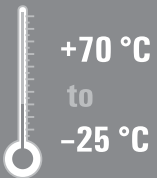
A wide-range input (both DC as well as AC voltages can be used; no switching required) and extensive approvals (UL/CSA and GL (EMC 1 – bridge)).

**Parallel connection**

Module power can be increased by connecting up to five power supplies in parallel without diode module.

**Narrow**

Space-saving configuration in the switching cabinet through very narrow housing construction and side-by-side connectability.

**Robust**

Wide temperature range from -25 °C ... +70 °C.

**Wide choice**

The right power supply for every application: 1-phase 3 A, 5 A, 7.5 A, 10 A, 20 A, 40 A and 3-phase 5 A, 10 A, 20 A, 40 A.

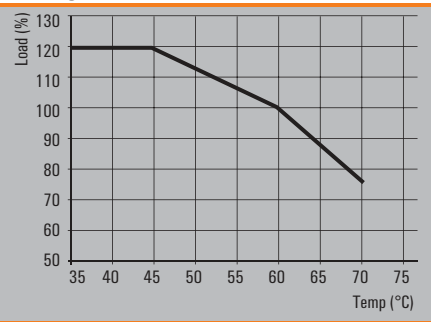
connectPower**connectPower PROeco****connectPower PROmax****connectPower PROtop****connectPower PRO-E****connectPower INSTAPOWER****connectPower DC/DC converters**

connectPower PROmax

connectPower
PROmax



Derating curve



Permitted continuous limit currents [A]

Typ\Temp.	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
1ph 24 V / 3 A	3,6	3,3	3,2	3	2,6	2,2
1ph 24 V / 5 A	6	5,7	5,4	5	4,4	3,8
1ph 24 V / 7,5 A	9	8,5	8	7,5	6,6	5,6
1ph 24 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 24 V / 20 A	24	22,6	21,4	20	17,6	15
1ph 24 V / 40 A	48	45,2	42,8	40	35,2	30
1ph 5 V / 14 A	16,8	15,8	15	14	12,3	10,5
1ph 12 V / 6 A	7,2	6,8	6,4	6	5,3	4,5
1ph 12 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 48 V / 5 A	6	5,7	5,4	5	4,4	3,8
1ph 48 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 48 V / 20 A	24	22,6	21,4	20	17,6	15
3ph 24 V / 5 A	6	5,7	5,4	5	4,4	3,8
3ph 24 V / 10 A	12	11,3	10,7	10	8,8	7,5
3ph 24 V / 20 A	24	22,6	21,4	20	17,6	15
3ph 24 V / 40 A	48	45,2	42,8	40	35,2	30

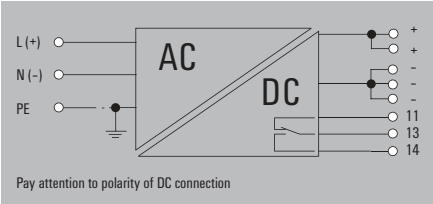
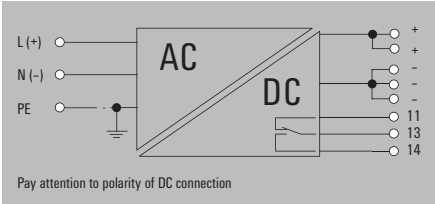
Technical data

General data	
Current limiting	> 120 % I _N
Insulation voltage input / earth	3.5
Insulation voltage output / earth	0.5
Insulation voltage, input/output	4
Earth leakage current, max.	3.5
Series switching capability	Yes
Ambient temperature (operational) / Storage temperature / Start-up	-25 °C...70 °C / -40 °C...85 °C / ≥ -40 °C
Humidity at operating temperature	5...95 %, no condensation
Class of protection / Pollution degree	I, with PE connection / 2
MTBF	
Housing version	Metal, corrosion resistant
Status indication	LED red/green and relay (≥21.6 V DC LED green, relay on/ ≤20.6 V DC LED red, relay off)
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
EMC / shock / vibration	
Interference immunity test acc. to	EN 55024, EN 55022, IEC61000-3-2;-3, IEC61000-4-2;-3;-4;-5;-6;-8;-11
Shock	30 g in all directions
Resistance to vibration	2.3 g
Electrical safety (applied standards)	
Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	IEC61558-2-16
For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950, PELV acc. to EN60204, IEC61204
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

connectPower PROmax

PRO MAX 72W 24V 3A

PRO MAX 120W 24V 5A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 1,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	3 A @ 60 °C
Continuous output current @ U_{Rated}	3,6 A @ 45 °C, 2,25 A @ 70 °C
Leitungsreserve @ U_{Rated}	3,6 A (1 min), 4,5 A (4s)
Pulsed current capacity @ U_{Rated}	9 A (2ms)
General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 32 / 130 mm
Net weight	650 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 1,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	6 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Net weight	859 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1A @ 230 VAC / 2,5A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 2,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	6 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Net weight	859 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	8 (++, --, 11, 13, 14)
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Ordering data

Type	Qty.	Order No.
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Type	Qty.	Order No.
PRO MAX 72W 24V 3A	1	1478100000

Type	Qty.	Order No.
PRO MAX 120W 24V 5A	1	1478110000

Note

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Accessories

Note

Note

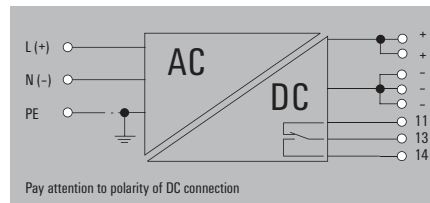
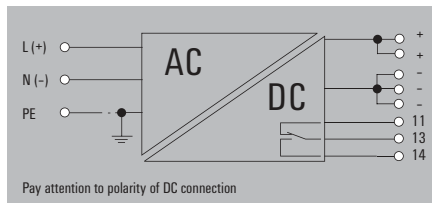
Note

connectPower PROmax

connectPower PROmax

PRO MAX 180W 24V 7,5A

PRO MAX 240W 24V 10A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 2 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 2A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm 1\%$
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	7,5 A @ 60 °C
Continuous output current @ U_{Rated}	9 A @ 45°C, 5,6 A @ 70°C
Leitungsreserve @ U_{Rated}	9 A (1 min), 11.25 A (4s)
Pulsed current capacity @ U_{Rated}	22,5 A (2ms)
General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 50 / 130 mm
Net weight	950 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input		Output	
Rated input voltage	100...240 V AC (wide-range input)	Rated output voltage	24 V DC $\pm 1\%$
Input voltage range AC	85...277 V AC	Output voltage	22.5...29.5 V (adjustable via potentiometer)
Frequency range AC	45...65 Hz	Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
DC input voltage range	80...370 V DC	Rated (nominal) output current @ U_{Nomin}	7,5 A @ 60 °C
AC current consumption	1 A @ 230 V AC / 2 A @ 115 V AC	Continuous output current @ U_{Rated}	9 A @ 45°C, 5,6 A @ 70°C
DC current consumption	1A @ 370 VDC / 2A @ 120 VDC	Leitungsreserve @ U_{Rated}	9 A (1 min), 11.25 A (4s)
Input fuse (internal) / Inrush current	Yes / max. 15 A	Pulsed current capacity @ U_{Rated}	22,5 A (2ms)
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker	Degree of efficiency	91.5%
		Power factor (approx.)	> 0.95 @ 230 V AC
		AC failure bridging time @ I_{Nomin}	min. 20 ms
		Protection against reverse voltages from the load	30...35 V DC
		Parallel connection option	yes, max. 5
		Depth x width x height	125 / 50 / 130 mm
		Net weight	950 g
		Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input		Output	
Rated input voltage	100...240 V AC (wide-range input)	Rated output voltage	24 V DC $\pm 1\%$
Input voltage range AC	85...277 V AC	Output voltage	22.5...29.5 V (adjustable via potentiometer)
Frequency range AC	45...65 Hz	Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
DC input voltage range	80...370 V DC	Rated (nominal) output current @ U_{Nomin}	10 A @ 60 °C
AC current consumption	1.5 A @ 230 V AC / 3 A @ 115 V AC	Continuous output current @ U_{Rated}	12 A @ 45°C, 7,5 A @ 70°C
DC current consumption	1,5A @ 370 VDC / 3A @ 120 VDC	Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s)
Input fuse (internal) / Inrush current	Yes / max. 15 A	Pulsed current capacity @ U_{Rated}	30 A (2ms)
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker	Degree of efficiency	91.5%
		Power factor (approx.)	> 0.95 @ 230 V AC
		AC failure bridging time @ I_{Nomin}	min. 20 ms
		Protection against reverse voltages from the load	30...35 V DC
		Parallel connection option	yes, max. 5
		Depth x width x height	125 / 60 / 130 mm
		Net weight	1050 g
		Approvals	CE; cULus; cULusEX; cURus; EAC; GL; 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	
Screwdriver blade	
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
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Type	Qty.	Order No.
PRO MAX 180W 24V 7,5A	1	1478120000

Type	Qty.	Order No.
PRO MAX 240W 24V 10A	1	1478130000

Note

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Accessories

Note

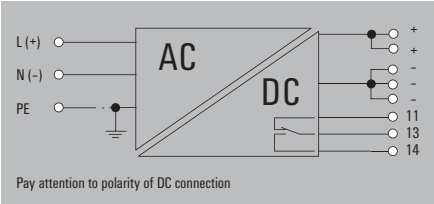
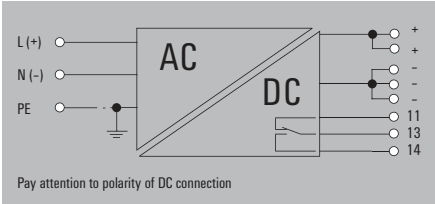
Note

Note

connectPower PROmax

PRO MAX 480W 24V 20A

PRO MAX 960W 24V 40A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	2,3A @ 230 VAC / 4,8A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 4,8A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	16 A, Char. B circuit breaker, 10 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	20 A @ 60 °C
Continuous output current @ U_{Rated}	24 A @ 45°C, 15 A @ 70°C
Leitungsreserve @ U_{Rated}	24 A (1 min), 30 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	60 A (2ms)
General data	
Degree of efficiency	92 %
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 90 / 130 mm
Net weight	2000 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, Char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	40 A @ 60 °C
Continuous output current @ U_{Rated}	48 A @ 45°C, 30 A @ 70°C
Leitungsreserve @ U_{Rated}	48 A (1 min), 60 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	120 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 140 / 130 mm
Net weight	3900 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, Char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	40 A @ 60 °C
Continuous output current @ U_{Rated}	48 A @ 45°C, 30 A @ 70°C
Leitungsreserve @ U_{Rated}	48 A (1 min), 60 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	120 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 140 / 130 mm
Net weight	3900 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	8 (++, --, 11, 13, 14)
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.5 / 16
0.22 / 4	0.5 / 16
26 / 10	22 / 8
0.8 x 4.0, PZ 1	1.0 x 5.5

Ordering data

Type	Qty.	Order No.
PRO MAX 480W 24V 20A	1	1478140000

Type	Qty.	Order No.
PRO MAX 960W 24V 40A	1	1478150000

Type	Qty.	Order No.
PRO MAX 960W 24V 40A	1	1478150000

Note

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Accessories

Note

Note

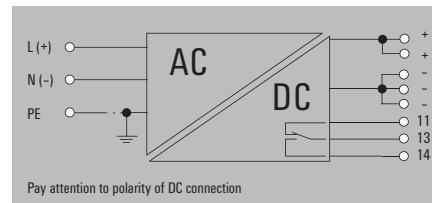
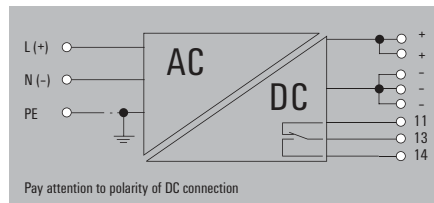
Note

connectPower PROmax

connectPower PROmax

PRO MAX 70W 5V 14A

PRO MAX 72W 12V 6A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 1,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	5 V DC
Output voltage	4.5...7 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nom}	14 A @ 60°C
Continuous output current @ U_{Rated}	16,8 A @ 45°C, 10,5 A @ 70°C
Leitungsreserve @ U_{Rated}	16,8 A (1 min), 21 A (4s)
Pulsed current capacity @ U_{Rated}	42 A (2ms)
General data	
Degree of efficiency	86%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{Nom}	min. 20 ms
Protection against reverse voltages from the load	> 7.5 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 32 / 130 mm
Net weight	650 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input		Output	
Rated input voltage	100...240 V AC (wide-range input)	Rated output voltage	12 V DC $\pm$ 1 %
Input voltage range AC	85...277 V AC	Output voltage	10...15 V (adjustable via potentiometer)
Frequency range AC	45...65 Hz	Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
DC input voltage range	80...370 V DC	Rated (nominal) output current @ U_{Nom}	6 A @ 60°C
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC	Continuous output current @ U_{Rated}	7.2 A @ 45°C, 4.5 A @ 70°C
DC current consumption	1A @ 370 VDC / 1,5A @ 120 VDC	Leitungsreserve @ U_{Rated}	7.2 A (1 min), 9 A (4s)
Input fuse (internal) / Inrush current	Yes / max. 15 A	Pulsed current capacity @ U_{Rated}	18 A (2ms)
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker	Degree of efficiency	89%
		Power factor (approx.)	> 0.90 @ 230 V AC
		AC failure bridging time @ I_{Nom}	min. 20 ms
		Protection against reverse voltages from the load	> 18 V DC
		Parallel connection option	yes, max. 5
		Depth x width x height	125 / 32 / 130 mm
		Net weight	650 g
		Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input		Output	
Rated input voltage	100...240 V AC (wide-range input)	Rated output voltage	12 V DC $\pm$ 1 %
Input voltage range AC	85...277 V AC	Output voltage	10...15 V (adjustable via potentiometer)
Frequency range AC	45...65 Hz	Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
DC input voltage range	80...370 V DC	Rated (nominal) output current @ U_{Nom}	6 A @ 60°C
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC	Continuous output current @ U_{Rated}	7.2 A @ 45°C, 4.5 A @ 70°C
DC current consumption	1A @ 370 VDC / 1,5A @ 120 VDC	Leitungsreserve @ U_{Rated}	7.2 A (1 min), 9 A (4s)
Input fuse (internal) / Inrush current	Yes / max. 15 A	Pulsed current capacity @ U_{Rated}	18 A (2ms)
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker	Degree of efficiency	89%
		Power factor (approx.)	> 0.90 @ 230 V AC
		AC failure bridging time @ I_{Nom}	min. 20 ms
		Protection against reverse voltages from the load	> 18 V DC
		Parallel connection option	yes, max. 5
		Depth x width x height	125 / 32 / 130 mm
		Net weight	650 g
		Approvals	CE; cULus; cULusEX; cURus; EAC; GL; 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	
Screwdriver blade	
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Ordering data

Type	Qty.	Order No.
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Type	Qty.	Order No.
PRO MAX 70W 5V 14A	1	1478210000

Type	Qty.	Order No.
PRO MAX 72W 12V 6A	1	1478220000

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

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Accessories

Note

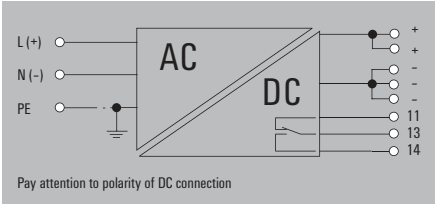
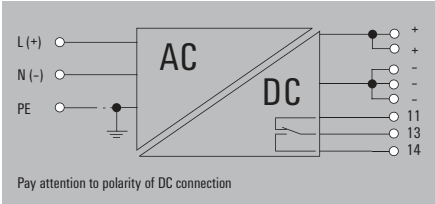
Note

Note

connectPower PROmax

PRO MAX 120W 12V 10A

PRO MAX 240W 48V 5A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1A @ 230 VAC / 2,5A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 2,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker
Output	
Rated output voltage	12 V DC $\pm$ 1 %
Output voltage	10...15 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45 °C, 7,5 A @ 70 °C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U_{Rated}	30 A (2ms)
General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	> 18 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Net weight	850 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1.5 A @ 230 V AC / 3 A @ 115 V AC
DC current consumption	1,5A @ 370 VDC / 3A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6.0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	5 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	92.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Net weight	1050 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1.5 A @ 230 V AC / 3 A @ 115 V AC
DC current consumption	1,5A @ 370 VDC / 3A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6.0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	5 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	92.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Net weight	1050 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
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
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
PRO MAX 120W 12V 10A	1	1478230000

Type	Qty.	Order No.
PRO MAX 120W 12V 10A	1	1478230000

Type	Qty.	Order No.
PRO MAX 240W 48V 5A	1	1478240000

Note
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Accessories

Note

Note

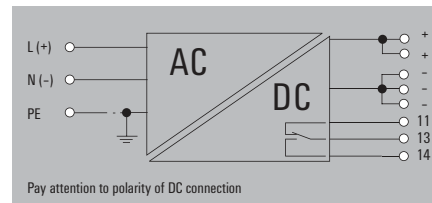
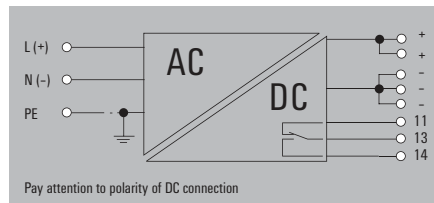
Note

connectPower PROmax

connectPower PROmax

PRO MAX 480W 48V 10A

PRO MAX 960W 48V 20A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	2,3A @ 230 VAC / 4,8A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 4,8A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	16 A, Char. B circuit breaker, 10 A, char. C circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nom}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45°C, 7,5 A @ 70°C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	60 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nom}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	150 / 90 / 130 mm
Net weight	2000 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input		Output	
Rated input voltage	100...240 V AC (wide-range input)	Rated output voltage	48 V DC $\pm$ 1 %
Input voltage range AC	85...277 V AC	Output voltage	30...56 V (adjustable via potentiometer)
Frequency range AC	45...65 Hz	Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
DC input voltage range	80...370 V DC	Rated (nominal) output current @ U_{Nom}	10 A @ 60 °C
AC current consumption	2,3A @ 230 VAC / 4,8A @ 115 VAC	Continuous output current @ U_{Rated}	12 A @ 45°C, 7,5 A @ 70°C
DC current consumption	1,5A @ 370 VDC / 4,8A @ 120 VDC	Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s), 100...240 V AC
Input fuse (internal) / Inrush current	Yes / max. 15 A	Pulsed current capacity @ U_{Rated}	60 A (2ms)
Recommended back-up fuse	16 A, Char. B circuit breaker, 10 A, char. C circuit breaker	Degree of efficiency	93%
		Power factor (approx.)	> 0.95 @ 230 V AC
		AC failure bridging time @ I_{Nom}	min. 20 ms
		Protection against reverse voltages from the load	58 ... 65 V DC
		Parallel connection option	yes, max. 5
		Depth x width x height	150 / 90 / 130 mm
		Net weight	2000 g
		Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input		Output	
Rated input voltage	100...240 V AC (wide-range input)	Rated output voltage	48 V DC $\pm$ 1 %
Input voltage range AC	85...277 V AC	Output voltage	30...56 V (adjustable via potentiometer)
Frequency range AC	45...65 Hz	Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
DC input voltage range	80...370 V DC	Rated (nominal) output current @ U_{Nom}	20 A @ 60 °C
AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC	Continuous output current @ U_{Rated}	24 A @ 45°C, 15 A @ 70°C
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC	Leitungsreserve @ U_{Rated}	24 A (1 min), 30 A (4s), 100...240 V AC
Input fuse (internal) / Inrush current	Yes / max. 15 A	Pulsed current capacity @ U_{Rated}	60 A (2ms)
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, Char. C circuit breaker	Degree of efficiency	94%
		Power factor (approx.)	> 0.95 @ 230 V AC
		AC failure bridging time @ I_{Nom}	min. 20 ms
		Protection against reverse voltages from the load	58 ... 65 V DC
		Parallel connection option	yes, max. 5
		Depth x width x height	150 / 140 / 130 mm
		Net weight	1350 g
		Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Connection system	Screw connection
Number of terminals	8 (++,--,11,13,14)
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1

Input	Output
Connection system	Screw connection
Number of terminals	8 (++,--,11,13,14)
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.5 / 16
Wire cross-section, AWG/kcmil min/max	0.22 / 4
Screwdriver blade	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
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Type	Qty.	Order No.
PRO MAX 480W 48V 10A	1	1478250000

Type	Qty.	Order No.
PRO MAX 960W 48V 20A	1	1478270000

Note

Note
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Accessories

Note

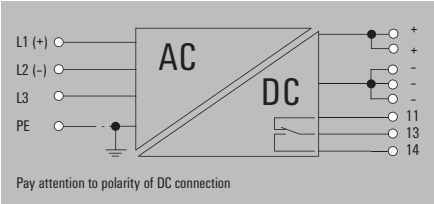
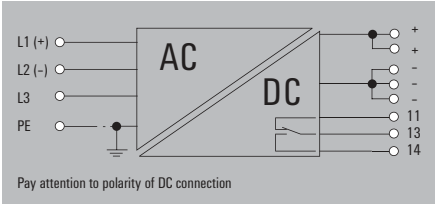
Note

Note

connectPower PROmax

PRO MAX3 120W 24V 5A

PRO MAX3 240W 24V 10A



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)
AC current consumption	0,28A @ 3*500 VAC / 0,3A @ 3*400 VAC
DC current consumption	0,18 A @ 800 V DC / 0,3 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	2...3 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	6 A (1 min), 7,5 A (4s), 400...500 V AC
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	90%
Power factor (approx.)	> 0.50 @ 3*400 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Net weight	783 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; 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)
AC current consumption	0,35A @ 3*500 VAC / 0,4A @ 3*400 VAC
DC current consumption	0,35 A @ 800 V DC / 0,6 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45 °C, 7,5 A @ 70 °C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U_{Rated}	30 A (2ms)
General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.85 @ 3*400 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Net weight	1322 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; 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)
AC current consumption	0,35A @ 3*500 VAC / 0,4A @ 3*400 VAC
DC current consumption	0,35 A @ 800 V DC / 0,6 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45 °C, 7,5 A @ 70 °C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U_{Rated}	30 A (2ms)
General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.85 @ 3*400 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Net weight	1322 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	4 for L1/L2/L3/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
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (++, --, 11, 13, 14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
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Type	Qty.	Order No.
PRO MAX3 120W 24V 5A	1	1478170000

Type	Qty.	Order No.
PRO MAX3 240W 24V 10A	1	1478180000

Note

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Accessories

Note

Note

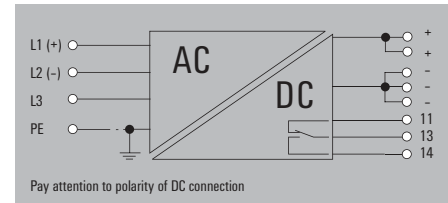
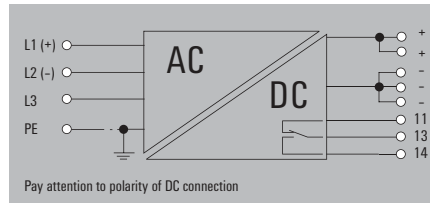
Note

connectPower PROmax

connectPower PROmax

PRO MAX3 480W 24V 20A

PRO MAX3 960W 24V 40A



Technical data

Input

Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
AC current consumption
DC current consumption
Input fuse (internal) / Inrush current
Recommended back-up fuse

3 x 400...3 x 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)
0,7A @ 3*500 VAC / 0,85 @ 3*400 VAC
0,7 A @ 800 V DC / 1,2 A @ 450 V DC
Yes / max. 15 A
3 - 5 A Char. C, circuit breaker

3 x 400...3 x 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)
1,3A @ 3*500 VAC / 1,6A @ 3*400 VAC
1,4 A @ 800 V DC / 2,4 A @ 450 V DC
Yes / max. 15 A
6...8 A, char. C circuit breaker

Output

Rated output voltage
Output voltage
Residual ripple, breaking spikes
Rated (nominal) output current @ U_{Nom}
Continuous output current @ U_{Rated}
Leitungsreserve @ U_{Rated}
Pulsed current capacity @ U_{Rated}

24 V DC $\pm 1\%$
22,5...29,5 V (adjustable via potentiometer)
< 50 mVss @ U_{Nomin} Full Load
20 A @ 60 °C
24 A @ 45°C, 15 A @ 70°C
24 A (1 min), 30 A (4s)
60 A (2ms)

24 V DC $\pm 1\%$
22,5...29,5 V (adjustable via potentiometer)
< 50 mVss @ U_{Nomin} Full Load
40 A @ 60 °C
48 A @ 45°C, 30 A @ 70°C
48 A (1 min), 60 A (4s), 400...500 V AC
120 A (2ms)

General data

Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{Nom}
Protection against reverse voltages from the load
Parallel connection option
Depth x width x height
Net weight

91,5%
> 0,85 @ 3*400 V AC
min. 20 ms
30...35 V DC
yes, max. 3
150 / 70 / 130 mm
1600 g

93,5%
> 0,75 @ 3*400 V AC
min. 20 ms
30...35 V DC
yes, max. 3
150 / 140 / 130 mm
3400 g

Approvals

Approvals

CE; cULus; cULusEX; cURus; EAC; GL; TUEV

CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data

Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max
Screwdriver blade

mm²
mm²

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (++, --, 11, 13, 14)
0,18 / 6	0,18 / 6
0,22 / 4	0,22 / 4
26 / 10	26 / 10
0,8 x 4,0, PZ 1	0,8 x 4,0, PZ 1

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (++, --, 11, 13, 14)
0,18 / 6	0,5 / 16
0,22 / 4	0,5 / 16
26 / 10	22 / 8
0,8 x 4,0, PZ 1	1,0 x 5,5

Note

Ordering data

Type	Qty.	Order No.
PRO MAX3 480W 24V 20A	1	1478190000

Type	Qty.	Order No.
PRO MAX3 960W 24V 40A	1	1478200000

Note

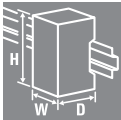
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

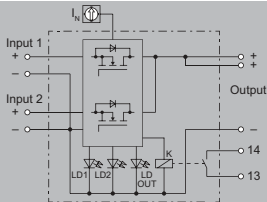
Accessories

Note

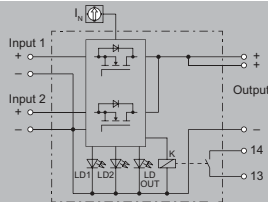
connectPower PROmax redundancy module



PRO RM 10



PRO RM 20



Technical data

Input	
DC input voltage range	
DC current consumption	
Output	
Rated output voltage	
Continuous output current @ U_{Rated}	
General data	
Ambient temperature (operational)	
Storage temperature	
Derating	
Degree of efficiency	
Mounting position, installation notice	
Depth x width x height / Net weight	
Approvals	

10 ... 32 V DC
2 × 12 A (-40 °C ~ +45 °C), 2 × 10 A (+45 °C ~ +60 °C), 2 × 7.5 A (+70 °C)
UNDEFINED TEXT
1 × 24 A (-40 °C ~ +45 °C), 1 × 20 A (+45 °C ~ +60 °C), 1 × 15 A (+70 °C)
-40 °C...70 °C
85 °C...40 °C
> 60°C / 75% @ 70°C
> 98%
Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
125 / 30 / 130 mm / 497 g

10 ... 32 V DC
2 × 24 A (-40 °C ~ +45 °C), 2 × 20 A (+45 °C ~ +60 °C), 2 × 15 A (+70 °C)
UNDEFINED TEXT
1 × 48 A (-40 °C ~ +45 °C), 1 × 40 A (+45 °C ~ +60 °C), 1 × 30 A (+70 °C)
-40 °C...70 °C
85 °C...40 °C
> 60°C / 75% @ 70°C
> 98%
Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
125 / 38 / 130 mm / 558 g

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	
Tightening torque range	
Note	

Input	Output
PUSH IN	PUSH IN
4 (+, +, -, -)	2 (+ / -)
0.2 / 2.5	0.2 / 10
0.2 / 2.5	0.2 / 6
26 / 12	24 / 8

Input	Output
PUSH IN	PUSH IN
4 (+, +, -, -)	2 (+ / -)
0.2 / 10	0.75 / 16
0.2 / 6	0.75 / 16
24 / 8	20 / 4

Ordering data

Screw connection
Note

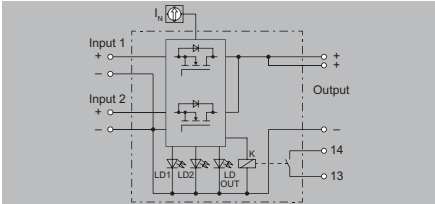
Type	Qty.	Order No.
PRO RM 10	1	2486090000
Note		

Type	Qty.	Order No.
PRO RM 20	1	2486100000
Note		

connectPower PROmax

connectPower PROmax redundancy module

PRO RM 40



Technical data

Input	
DC input voltage range	
DC current consumption	
Output	
Rated output voltage	
Continuous output current @ U_{Rated}	
General data	
Ambient temperature (operational)	
Storage temperature	
Derating	
Degree of efficiency	
Mounting position, installation notice	
Depth x width x height / Net weight	
Approvals	

10 ... 32 V DC
2 × 48 A (-40 °C ~ +45 °C), 2 × 40 A (+45 °C ~ +60 °C), 2 × 30 A (+70 °C)
UNDEFINED TEXT
1 × 96 A (-40 °C ~ +45 °C), 1 × 80 A (+45 °C ~ +60 °C), 1 × 60 A (+70 °C)
-40 °C...70 °C
85 °C...40 °C
> 60°C / 75% @ 70°C
> 98%
Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
125 / 52 / 130 mm / 747 g

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	
Tightening torque range	
Note	

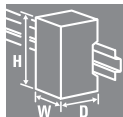
Input	Output
Screw connection	Screw connection
4 (+, +, -, -)	2 (+ / -)
0.2 / 16	0.5 / 16
0.5 / 16	0.5 / 35
22 / 6	20 / 1
	/ 4

Ordering data

Screw connection
Note

Type	Qty.	Order No.
PRO RM 40	1	2486110000
Note		

PRO-M: diode, capacitor and relay modules



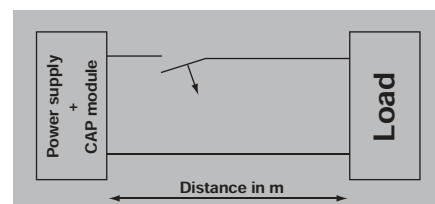
CP M CAP



Pulse triggering for circuit breakers: with the Weidmüller capacitance module

The following conditions apply to the table entries:

- Ambient temperature of 20 °C
- Inner resistance of the circuit breakers is taken into account
- Half of the rated current flows to a neighbouring circuit before the short circuit is formed
- DC-compatible circuit breakers: Siemens 5SY series



Technical data

Input
Rated input voltage / DC input voltage range
Output
Peak current output / Recovery time for the capacitor
Switching thresholds
Floating contact
General data
Depth x width x height / Net weight
Ambient temperature (operational) / Storage temperature
Humidity
Protection degree
Class of protection
Pollution degree
Insulation voltage
MTBF
Mounting position, installation notice
EMC / shock / vibration
Noise emission acc. to EN55022
Interference immunity test acc. to
Resistance to vibration / Shock
Electrical safety (applied standards)
Electrical machine equipment
For use with electronic equipment
Safety extra-low voltage
Approvals
Approvals

24 V DC / 18...30 V DC
Depending on the load (typically 40 A for 1 ms) / Approx. 1 sec.
21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail
Yes
/ 150 / 34 / 130 mm / 733 g
-25 °C...70 °C-40 °C...85 °C
5...95 %, no condensation
IP20
III, with no ground connection, for SELV
2
0.5 kV Input/output housing
> 500,000 h acc. to IEC 1709 (SN29500)
Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
Class B
EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips)
1 g according to EN50178 / 15 g In all directions
Acc. to EN60204
Acc. to EN50178 / VDE0160
SELV acc. to EN60950, PELV acc. to EN60204
CE; cULus; EAC; GL

Fuse tripping

Conductor cross section	B6	B10
0.75 mm ²	10 m	
1.0 mm ²	14 m	6 m
1.5 mm ²	20 m	9 m
2.5 mm ²	30 m	15 m
4 mm ²	50 m	24 m
6 mm ²		
B16		
0.75 mm ²		
1.0 mm ²		
1.5 mm ²	4 m	
2.5 mm ²	6 m	
4 mm ²	10 m	
6 mm ²	16 m	
C2 C4		
0.75 mm ²	11 m	6 m
1.0 mm ²	14 m	8 m
1.5 mm ²	21 m	12 m
2.5 mm ²	34 m	19 m
4 mm ²		32 m
6 mm ²		
C6 C10		
0.75 mm ²	3 m	
1.0 mm ²	3.5 m	2 m
1.5 mm ²	5.5 m	3 m
2.5 mm ²	9 m	5 m
4 mm ²	14 m	8 m
6 mm ²		12 m

Connection data
Wire connection method
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
Screw connection	Screw connection
4 (++-)	3 (CO contacts)
0.5 / 6	0.5 / 6
0.5 / 4	0.5 / 2.5
26 / 12	26 / 12
For low-impedance connections we recommend 2.5 mm ² .	

Ordering data

Plastic clip-in foot
Metal clip-in foot

Type	Qty.	Order No.
CP M CAP	1	1222240000
CP M CAP	1	1222240010

Note

Accessories

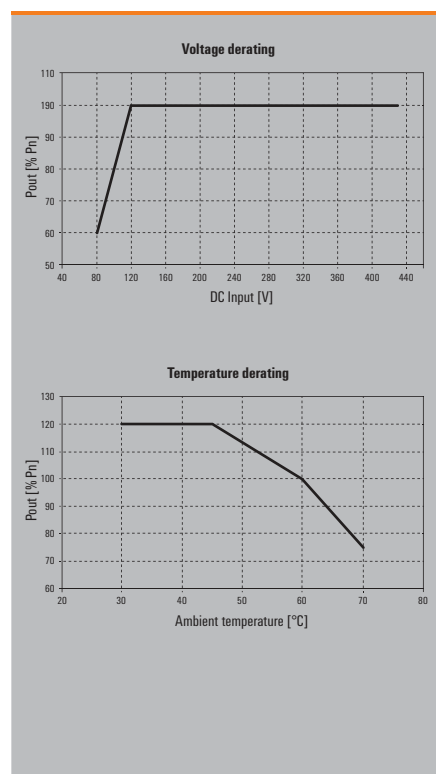
Note

connectPower PROmax

PRO-M: Application solution for wind power Switched-mode power supply with wide-range input

Application solution for wind power:

- 80 ... 430 V DC input
- Alarm contact
- Metal snap-on foot



Technical data

General technical data

Output characteristic curve / current limit	I _U / > 120 % I _R
Earth discharge current	< 3.5 mA
Ambient temperature (operational) / Storage temperature / Start-up	-25 °C...+70 °C / -40 °C...+85 °C / ≥ -40 °C
Max. permitted humidity (operational)	5 %...95 % RH
Degree of protection	IP 20
Class of protection	I, with PE connection
Pollution degree	2
Insulation voltage	3 kV AC 1 min. / 2 kV AC 1 min. / 0.5 kV AC 1 min.
MTBF	> 500,000 h according to IEC 1709 (SN29500)
Protection against reverse voltages from the load	30...35 V DC
Can be connected in parallel	Yes, without diode module
Housing version	Metal, corrosion resistant
Signal indication	Operations, green/red LED
Mounting position, installation notice	Horizontal on TS 35 mounting rail, with 50 mm of clearance at top and bottom for air circulation. Can be mounted side by side with no space in between. Suitable for installation in rotating systems.

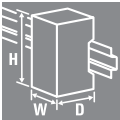
EMC / shock / vibration

Noise emission acc. to EN55022	Class B
Noise immunity tests acc. to	EN61000-4-2 (ESD), EN61000-4-3 and EN61000-4-8 (Fields), EN61000-4-4 (Burst), EN61000-4-5 (Surge), EN61000-4-6 (conducted), EN61000-4-11 (Dips)
Limiting of mains voltage harmonic currents	according to EN61000-3-2
Resistance against vibration and shock	according to EN50178, Shock: 5 g in all directions

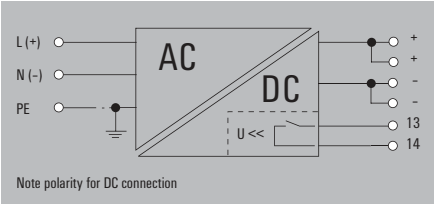
Electrical safety (applied standards)

Electrical equipment of machines	according to EN60204
Safety transformers for switched-mode power units	according to EN61558-2-16
Safety transformers for switched-mode power units	according to EN50178 / VDE0160
Safety extra low voltage	SELV according to EN60950, PELV according to EN60204
Protective separation / protection against electrical shock	VDE0100-410 / according to DIN57100-410
Protection against dangerous shock currents	according to VDE0106-101

PRO-M: application solutions for
wind energy



CP M SNT 250W 24V 10A UW



Technical data

Input	
Rated input voltage / Input voltage range AC	
Frequency range AC	
DC input voltage range	
AC current consumption	
DC current consumption	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Rated output voltage	
Output voltage	
Residual ripple, breaking spikes	
Rated (nominal) output current @ U_{nom}	
Continuous output current	
General data	
Degree of efficiency	
Power factor (approx.)	
AC failure bridging time @ I_{nom}	
Depth x width x height / Net weight	
Additional equipment	
Status indicator	
Relay on/off	
Approvals	
Approvals	

100...240 V AC (wide-range input) / 85...264 V AC (Derating @ 100 V AC)
47...63 Hz
80...430 V DC
1.2 A @ 230 V AC / 2.4 A @ 115 V AC
0.8 A @ 370 V DC / 2.3 A @ 120 V DC
Yes
4 A / DI, safety fuse
10 A, Char. B, circuit breaker
3...4 A, Char. C, circuit breaker
24 V DC $\pm$ 1 %
22.5...29.5 V DC (adjustable via potentiometer on front)
< 50 mV _{SS} @ 24 V DC, I_{in} < 2.4 V _{SS} @ 24 V DC, I_{in} @ -40°C
10 A @ 60 °C
90 % @ 230 V AC / 87 % @ 115 V AC
> 0.99 @ 230 V AC / > 0.97 @ 115 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
/ 155 / 60 / 130 mm / 1300 g
Green LED, red LED
Output voltage > 21.6 V / < 20.4 V
CE; cULus; EAC; GL; TUEV

Connection data	
Wire connection method	
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
Screw connection	Screw connection
3 for L/N/PE	6 (+,+,COM,NO)
0.5 / 6	0.5 / 6
0.5 / 2.5	0.5 / 2.5
26 / 12	26 / 12

Ordering data

Type	Qty.	Order No.
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CP M SNT 250W 24V 10AUW	1	1165480010
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Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
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Accessories

Note

Note

Small metal foot



Type	Order No.
MTA 30 MF	1251320000

Large metal foot



Type	Order No.
MTA 45 MF	1251310000

Small plastic foot



Type	Order No.
MTA 30 BK	1168970000

Large plastic foot



Type	Order No.
MTA 45 BK	1962250000

Small wall mounting



Type	Order No.
CP A WALLADAPTER 30 MM	1461870000

Large wall mounting



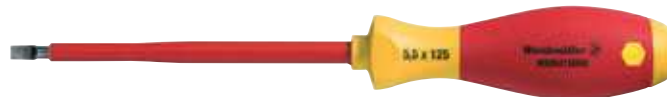
Type	Order No.
CP A WALLADAPTER 45 MM	1461850000

Small screwdriver



Type	Blade type	Size/AF	a	b	c	Order No.
SDIK PH1		1.00			80	9008570000
SDIS 0.5X3.0X100	B		0.5	3	100	9008380000

Large screwdriver



Type	Blade type	Size/AF	a	b	c	Order No.
SDIS 1.0X5.5X125	B		1	5.5	125	9008410000

Markers



Type	Colour	Qty.	Order No.
SM 18/9.5 K MC NE WS	white	200	1248580000

Endwinkel

For DIN rail TS 35



Type	Colour	Torque	Qty.	Order No.
Polyamide with fibre glass, screwable	black	1.2 Nm	50	1162600000
WEW 35/1 SW				