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Single phase,  
Primary switch mode

Touch-protected IP20  
Stabilized output voltage  
Short-circuit and overload  
protected

Wide voltage input

PIP-Power<sup>+</sup>



## MPS 3 - 230/24

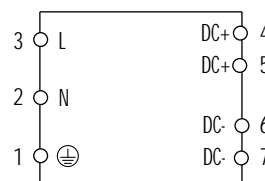
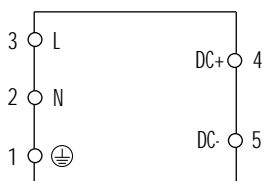
Input voltage 115/230 V AC



## MPS 5 - 230/24

Input voltage 115/230 V AC

### Circuit diagram



### Ordering data

Output rating	Art.-No.	Art.-No.
24 V DC/3 A 72 W	85051	
24 V DC/5 A 120 W		85053

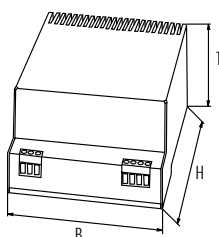
### Technical data

Input		
Input voltage	95...265 V AC	90...265 V AC
Input current	1,5 A (115 V) ; 0,75 A (230 V)	1,95 A (115 V) ; 0,95 A (230 V)
Inrush	< 20 A	< 22 A
Primary fusing	max. 10 A (group fuse)	
Frequency	50/60 Hz	
Output		
Output voltage	24 V DC , accuracy +3 % / -1 %	
Nom. output current	3 A ; 3,5 A at 40 °C	5 A ; 6 A at 40 °C
Efficiency	0,81	0,85
Mains failure bridging	> 8,3 msec. (115 V) ; > 60 msec. (230 V)	> 10 msec. (115 V) ; > 80 msec. (230 V)
Ripple	< 20 mV rms ; < 100 mV pp	
Protection	overload and short-circuit protected, automatic re-start U < 8 V	
Status indicator	green LED at output voltage > 22 V DC	
Parallel usage/ serial usage	no/ yes	
Test insulation voltage	4 kV AC	

### General data

Guidelines	EN 60950, EN 50081-1, EN 50082-2, EN 55011B, EN 60555-2	
Temperature range/relative humidity	0...+60 °C/ 30...90 %, no condensation	
Mounting method	DIN-rail mounting to EN 50022, additional plate for screw mounting Art.-No. 89500	
Weight	0,6 kg	0,8 kg
Dimensions	H x B x T	132 x 75 x 71 mm
		132 x 110 x 71 mm

### Dimension drawing/fixing centers



### Notes

In order to guarantee heat dissipation by convection, the unit must be mounted horizontally on a vertical back panel.

# Compact power supplies – single phase

Single phase,  
Primary switch mode

Touch-protected IP20  
Stabilized output voltage  
Parallel switch mode  
Short-circuit and overload  
protected

PIP-*Power* +



## MPS 10 - 230/24

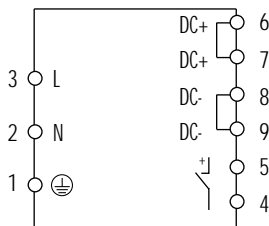
Input voltage 230 V AC



## MPS 20 - 230/24

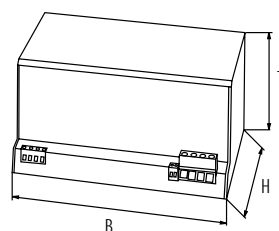
Input voltage 230 V AC

### Circuit diagram



Ordering data		Art.-No.	Art.-No.
	Output rating		
24 V DC/10 A	240 W	85055	
24 V DC/20 A	480 W		85057
Technical data		Input	
Input voltage	185...265 V AC	185...265 V AC	
Input current	2,1 A	4,0 A	
	no inrush		
Primary fusing	max. 10 A (group fuse)	max. 16 A (group fuse)	
Frequency	50/60 Hz		
Technical data		Output	
Output voltage	22...28 V DC adjustable to an accuracy of $\pm 1\%$		
Nom. output current	10 A, 12 A at 40 °C	20 A, 24 A at 40 °C	
Efficiency	0,89	0,9	
Mains failure bridging	> 10 msec.		
Ripple	< 20 mV rms; < 100 mV pp		
Protection	overload and short-circuit protected, pre-warning and switch off when overload or high temperature, signalling over alarm output		
Status indicator	LED green in operation, LED red shut down, LED yellow pre-warning of overload or high temperature		
Parallel usage	max. 3 units, minimum load 5% of $I_{nominal}$		
Alarm output <sup>1)</sup>	relay contact max. 60 V DC/0.2 A, collective alarm for all faults and pre-warnings, quit via the green reset button		
Test insulation voltage	4 kV AC		
General data			
Guidelines	EN 60950, EN 50081-1, EN 50082-2, ENV 50142 2kV/4kV, EN 55011B		
Temperature range/relative humidity	0...+60 °C/ 30...90 %, no condensation		
Mounting method	DIN-rail mounting to EN 50022, additional plate for screw mounting Art.-No. 89500		
Test stop-button	for test purposes, the secondary voltage can be switched off short term with the test stop button		
Weight	1,7 kg	2,4 kg	
Dimensions	H x B x T	132 x 200 x 101 mm	132 x 245 x 133 mm

### Dimension drawing/fixing centers



### Notes

<sup>1)</sup> If units are used in parallel decoupling of units via diode block. In order to guarantee heat dissipation by convection, the unit must be mounted horizontally on a vertical back panel. Accessories for UPS function see page 4.13.3

Single phase  
Primary switch mode

Touch-protected IP20

Stabilized output voltage  
Parallel switch mode  
Short-circuit and overload  
protected

PIP-Power +



## MPS 10 - 110/24

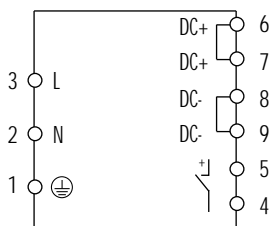
Input voltage 110 V AC

## MPS 20 - 110/24

Input voltage 110 V AC



### Circuit diagram



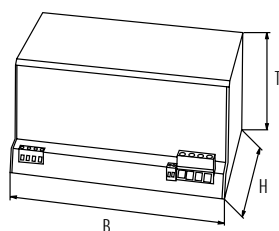
Ordering data	Art.-No.	Art.-No.
Output rating		
24 V DC/10 A	240 W	85054
24 V DC/20 A	480 W	85056

Technical data	Input		
Input voltage	95...132 V AC		95...132 V AC
Input current	4,2 A		8 A
	no inrush		
Primary fusing	max. 10 A (group fuse)		max. 16 A (group fuse)
Frequency	50/60 Hz		

Technical data	Output		
Output voltage	22...28 V DC adjustable to an accuracy of $\pm 1\%$		
Nom. output current	10 A, 12 A at 40 °C		20 A, 24 A at 40 °C
Efficiency	0,89		0,9
Mains failure bridging	> 10 msec.		
Ripple	< 20 mV rms; < 100 mV pp		
Protection	overload and short-circuit protected, pre-warning and switch off when overload or high temperature, signalling over alarm output		
Status indicator	LED green in operation, LED red shut down, LED yellow pre-warning of overload or high temperature		
Parallel usage	max. 3 units, minimum load 5% of $I_{nominal}$		
Alarm output <sup>1)</sup>	relay contact max. 60 V DC/0.2 A, collective alarm for all faults and pre-warnings, quit via the green reset button		
Test insulation voltage	4 kV AC		

General data			
Guidelines	EN 60950, EN 50081-1, EN 50082-2, ENV 50142 2kV/4kV, EN 55011B		
Temperature range/relative humidity	0...+60 °C/ 30...90 %, no condensation		
Mounting method	DIN-rail mounting to EN 50022, additional plate for screw mounting Art.-No. 89500		
Test stop-button	for test purposes, the secondary voltage can be switched off short term with the test stop button		
Weight	1,7 kg		2,4 kg
Dimensions H x B x T	132 x 200 x 101 mm		132 x 245 x 133 mm

### Dimension drawing/fixing centers



### Notes

<sup>1)</sup> If units are used in parallel decoupling of units via diode block. In order to guarantee heat dissipation by convection, the unit must be mounted horizontally on a vertical back panel. Accessories for UPS function see page 4.13.3

# Compact power supplies – single phase

Single phase  
Primary switch mode

Touch-protected IP20

Stabilized output voltage  
Short-circuit and overload protected

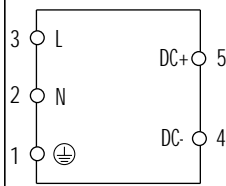
PIP-Power +



**MCS**  
Input voltage: 115/230 V AC



## Circuit diagram



## Ordering data

Output rating	Art.-No.
24 V DC/1,25 A 30 W	85432

## Technical data Input

Input voltage	94...264 V AC
Input current	0,5 A (115 V); 0,2 A (230 V)
Inrush	< 30 A peak
Primary fusing	max. 10 A
Frequency	50/60 Hz

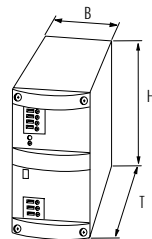
## Technical data Output

Output voltage	24 V DC, accuracy - 1 %/+2 %
Nom. output current	1,25 A
Efficiency	0,89 (115 V); 0,85 (230 V)
Mains failure bridging	> 40 msec. (187 V)
Ripple	< 50 mV pp
Spikes	< 150 mV pp
Protection	overload and short-circuit protected

## General data

Guidelines	EN 60950, EN 50081-1, EN 50082-2
Temperature range	0...70 °C, power reduction 2,5 % /K (+ 50 °C when vertically mounted, + 40 °C when horizontally mounted)
Relative humidity	30...90 %
Mounting method	DIN-rail mounting to EN 50022 (with manual bolt)
Weight	0,15 kg
Dimensions	H x B x T 76 x 38 x 74 mm

## Dimension drawing/fixing centers



## Notes

In order to guarantee heat dissipation by convection, the unit must be mounted horizontally on a vertical back panel.

Single phase  
Primary switch mode

Touch-protected IP20

Stabilized output voltage  
Parallel switched  
Short-circuit and overload  
protected

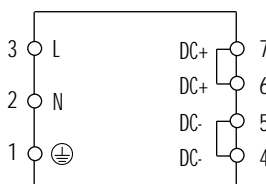
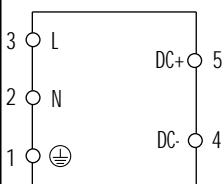
PIP-Power +



MCS  
Input voltage 115 V AC



### Circuit diagram



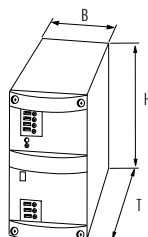
Ordering data	Art.-No.	Art.-No.	Art.-No.
Output rating			
24 V DC/5 A	120 W	85084	
24 V DC/10 A	240 W		85086
24 V DC/20 A	480 W		85088

Technical data	Input			
Input voltage	95...132 V AC			
Input current	2,2 A (115 V)	4,2 A (115 V)	8,4 A (115 V)	
Inrush	< 15 A	< 25 A	no inrush	
Primary fusing	max. 10 A	max. 10 A	max. 16 A	
Frequency	50/60 Hz			

Technical data	Output			
Output voltage	24...28 V DC adjustable to an accuracy of ± 1%			
Nom. output current	5 A	10 A	20 A	
Efficiency	84 %	90 %	90 %	
Mains failure bridging	> 20 ms (115 V)	> 15 ms (115 V)	> 20 ms (115 V)	
Ripple	< 20 mV rms	< 20 mV rms	< 20 mV rms	
Spikes	typical 80 mV pp	200 mV pp	250 mV pp	
Protection	overload and short-circuit protected			
Switch off mode choosable	front sided bridging link (self activating re-start or definite shutoff)			
Parallel usage	max. 5 units, minimum load 5% of I <sub>nominal</sub>			

General data				
Guidelines	EN 60950, EN 50081-1, EN 50082-2, EN 61000-6-2			
Temperature range	0...+60 °C			
Relative humidity	30...90 %, no condensation			
Mounting method	DIN-rail mounting to EN 50022			
Weight	0,59 kg	1,2 kg	2,3 kg	
Dimensions	H x B x T	115 x 54 x 125 mm	127 x 68 x 160 mm	170 x 84 x 201 mm

### Dimension drawing/fixing centers



Notes	In order to guarantee heat dissipation by convection, the unit must be mounted horizontally on a vertical back panel.
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# Compact power supplies – single phase

Single phase  
Primary switch mode

Touch-protected IP20

Stabilized output voltage  
Parallel switched  
Short-circuit and overload  
protected

PIP-Power+

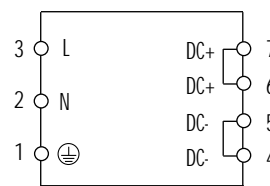
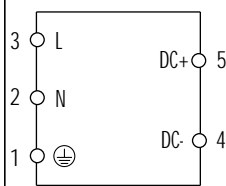


MCS

Input voltage: 230 V AC



## Circuit diagram



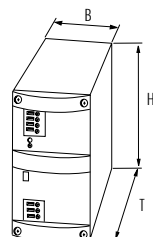
Ordering data	Output rating	Art.-No.	Art.-No.	Art.-No.
24 V DC/5 A	120 W	85083		
24 V DC/10 A	240 W		85085	
24 V DC/20 A	480 W			85087

Technical data	Input			
Input voltage	185...265 V AC			
Input current	1,1 A (230 V)	2,1 A (230 V)	4,2 A (230 V)	
Inrush	< 15 A	< 25 A	no inrush	
Primary fusing	max. 10 A	max. 16 A	max. 16 A	
Frequency	50/60 Hz			

Technical data	Output			
Output voltage	24...28 V DC adjustable to an accuracy of $\pm 1\%$			
Nom. output current	5 A	10 A	20 A	
Efficiency	84 %	90 %	90 %	
Mains failure bridging	> 20 msec. (230 V)	> 15 msec. (230 V)	> 20 msec. (230 V)	
Ripple	< 20 mV rms	< 20 mV rms	< 20 mV rms	
Spikes	typical 80 mVpp	100 mVpp	250 mVpp	
Protection	overload and short-circuit protected			
Switch off mode choosable	front sided bridging link (self activating re-start or definite shutoff)			
Parallel usage	max. 5 units, minimum load 5% of $I_{nominal}$			

General data				
Guidelines	EN 60950, EN 50081-1, EN 50082-2, EN 61000-6-2			
Temperature range	0...+60 °C			
Relative humidity	30...90 %, no condensation			
Mounting method	DIN-rail mounting to EN 50022			
Weight	0,59 kg	1,2 kg	2,3 kg	
Dimensions	H x B x T	115 x 54 x 125 mm	127 x 68 x 160 mm	170 x 84 x 201 mm

## Dimension drawing/fixing centers



Notes	In order to guarantee heat dissipation by convection, the unit must be mounted horizontally on a vertical back panel.
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Single phase  
Primary switch mode

Touch-protected IP20

Stabilized output voltage  
Parallel switched  
Short-circuit and overload  
protected

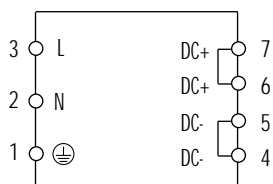
PIP-Power +



MCS  
Input voltage 400 V AC



## Circuit diagram



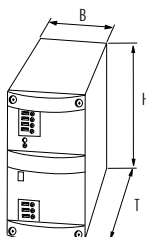
Ordering data		Art.-No.	Art.-No.
	Output rating		
24 V DC/5 A	120 W	857725	
24 V DC/10 A	240 W		857726

Technical data	Input		
Input voltage	360...460 V AC		
Input current	0,65 A (400 V)		1,2 A (400 V)
Inrush	< 10 A		< 10 A
Primary fusing	max. 10 A		max. 10 A
Frequency	50/60 Hz		

Technical data	Output		
Output voltage	24...28 V DC adjustable to an accuracy of $\pm 1\%$		
Nom. output current	5 A		10 A
Efficiency	85 %		87 %
Mains failure bridging	> 15 msec. (400 V)		> 20 msec. (400 V)
Ripple	< 20 mV rms		< 20 mV rms
Spikes	typical 100 mVpp		200 mVpp
Protection	overload and short-circuit protected		
Switch off mode choosable	front sided bridging link (self activating re-start or definite shutoff)		
Parallel usage	max. 3 units, minimum load 5% of $I_{\text{nominal}}$		

General data			
Guidelines	EN 60950, EN 50081-1, EN 50082-2, EN 61000-6-2		
Temperature range	0...+60 °C		
Relative humidity	30...90 %, no condensation		
Mounting method	DIN-rail mounting to EN 50022		
Weight	0,85 kg		1,2 kg
Dimensions	H x B x T	127 x 60 x 140 mm	127 x 68 x 160 mm

## Dimension drawing/fixing centers



**Notes**  
In order to guarantee heat dissipation by convection, the unit must be mounted horizontally on a vertical back panel.



# Compact power supplies – single phase

## Supply voltage for AS-Interface-Bus

- Single phase
- Primary switch mode
- Touch-protected



### MA SI - 2,8

Input voltage 115 V AC



### MA SI - 2,8

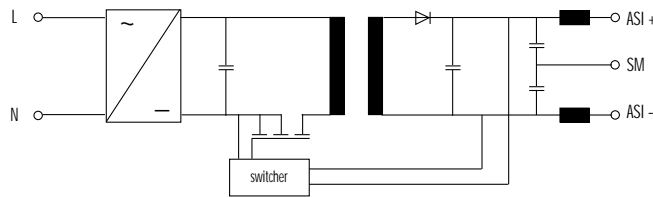
Input voltage 230 V AC

### MA SI - 2,8 IP67

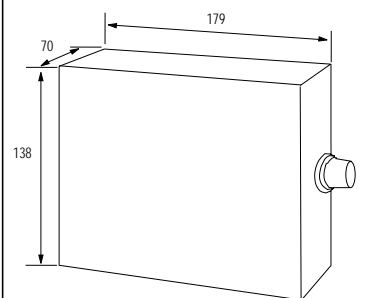
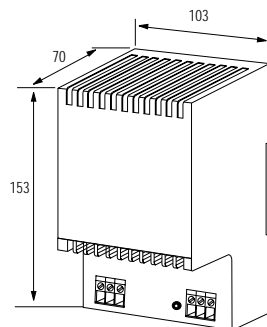
Input voltage 230 V AC



## Circuit diagram



Ordering data		Art.-No.	Art.-No.	Art.-No.
MA SI-2,8		85425	85424	
MA SI-2,8 IP67				85430
Technical data	Input			
Input voltage	115 V AC + 20 %/ -15 %	230 V AC ± 20 %		
Input current	1,3 A	0,8 A		
Frequency	50/60 Hz			
Safety	fuse 1,6 A tr. (internal, not accessible)			
Technical data	Output			
Output voltage	30,5 V ± 3%			
Max. output current	2,8 A			
Output rating	85,4 W			
Efficiency	0,85			
Ripple	< 50 mVpp			
Protection	overload and short-circuit protected			
Status indicator	green LED and smoothing capacitor			
Output filter	filter to AS-Interface specification			
General data				
Test insulation voltage	4,2 kV AC			
Safety	to EN 60950			
Protection	IP20			IP67
Temperature range	-10...+60 °C			
Mounting method	DIN-rail mounting to EN 50022			
AS-Interface	the unit meets ASI requirements for power supplies (PELV)			
Dimensions H x B x T	153 x 103 x 70 mm		138 x 179 x 70 mm	
Dimension drawing/fixing centers				



## Notes

In order to guarantee heat dissipation by convection, the unit must be mounted horizontally on a vertical back panel.



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