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Find the *Murr Elektronik MPS10-110/24* at our website: *Click HERE*

Single phase,
Primary switch mode

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

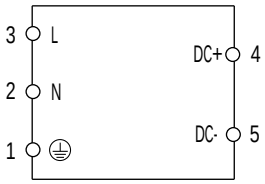
Wide voltage input

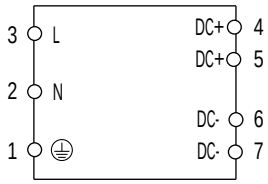
PIP-*Power*+

	MPS 3 - 230 / 24	MPS 5 - 230 / 24
	Input voltage 115 / 230 V AC	Input voltage 115 / 230 V AC



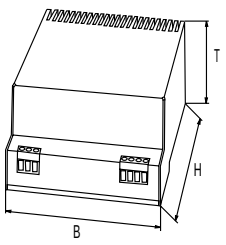
Circuit diagram





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	
Technical data	**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.

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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

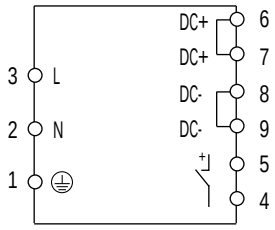
Input voltage 230 V AC

MPS 20 - 230/24

Input voltage 230 V AC

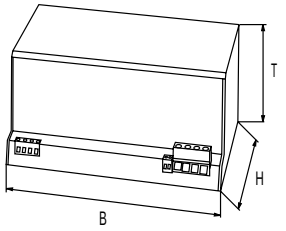


Circuit diagram



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 ± 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[1)]		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

[1)] 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

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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

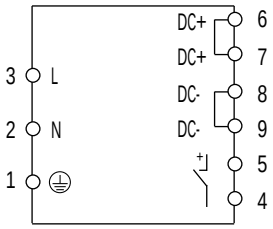
Input voltage 110 V AC



MPS 20 - 110/24

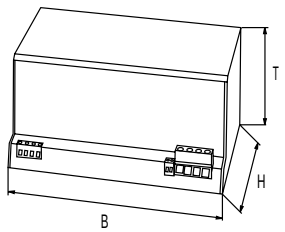
Input voltage 110 V AC

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 ± 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[1)]		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

[1)] 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

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Single phase
Primary switch mode

Touch-protected IP20

Stabilized output voltage
Short-circuit and overload protected

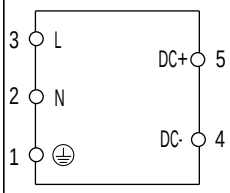
PIP-Power +

MCS

Input voltage 115/230 V AC



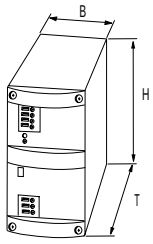
Circuit diagram



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.

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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

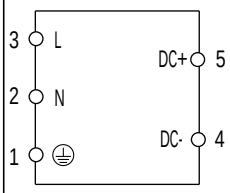
PIP-*Power*+

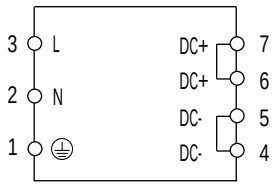
MCS

Input voltage 115 V AC



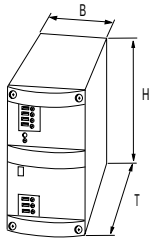
Circuit diagram





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 $I_{nominal}$		
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

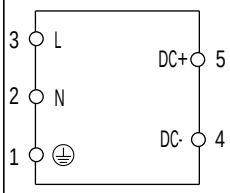
PIP-Power +

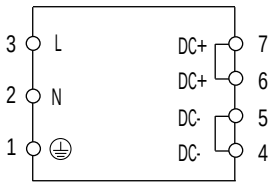
MCS

Input voltage 230 V AC



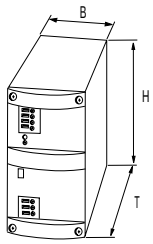
Circuit diagram





Ordering data		Art.-No.	Art.-No.	Art.-No.
	Output rating			
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 ± 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* +

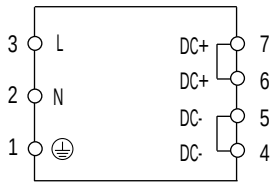
CE

MCS

Input voltage 400 V AC



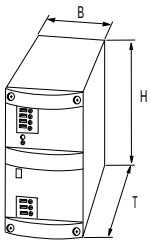
Circuit diagram



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 ± 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 $I_{nominal}$	
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.

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Supply voltage for AS-Interface-Bus

– Single phase

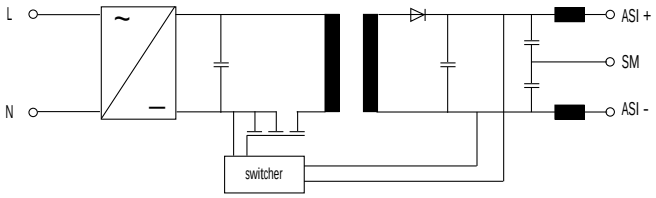
– Primary switch mode

– Touch-protected

CE

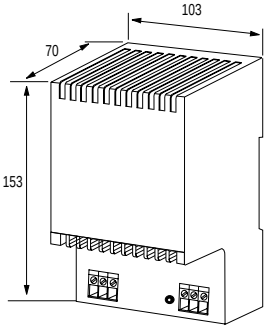
	MASI - 2,8	MASI - 2,8	MASI - 2,8 IP67
	Input voltage 115 V AC	Input voltage 230 V AC	Input voltage 230 V AC
			

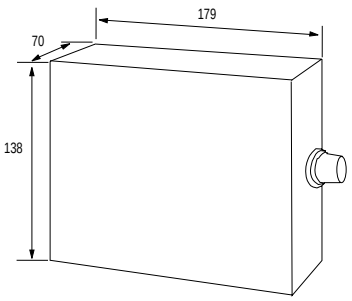
Circuit diagram



Ordering data	**Art.-No.**	**Art.-No.**	**Art.-No.**
MASI-2,8	**85425**	**85424**	
MASI-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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