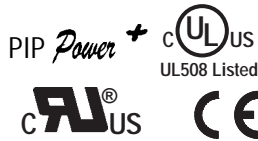


# Compact Power Supplies – MPS Series



Single phase  
primary switch mode

Touch protected IP 20  
Regulated output  
Short circuit and overload  
protected



MPS 110/24  
24 V DC 10 A  
Primary voltage 110 V AC

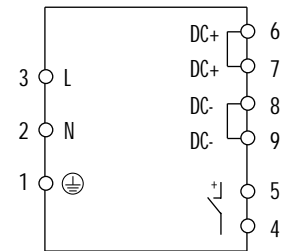
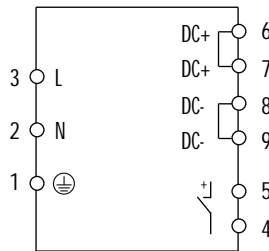
MPS 110/24  
24 V DC 20A  
Primary voltage 110 V AC

MPS 230/24  
24 V DC 10 A  
Primary voltage 230 V AC

MPS 230/24  
24 V DC 20 A  
Primary voltage 230 V AC



## Circuit diagram



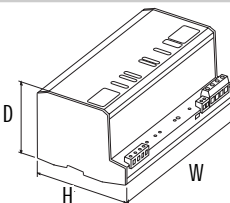
Ordering data	10 A	20 A	10 A	20 A
Output rating	Part No.	Part No.	Part No.	Part No.
24 V DC/10 A	240 W	85054	85055	
24 V DC/20 A	480 W		85056	85057

Technical data	Input
Primary voltage	95...132 V AC
Primary current	4.2 A, no in-rush current
Frequency	50/60 Hz
Recommended primary fuse	Not greater than 1.5 x nominal current

Technical data	Output
Secondary voltage	24...28 V DC adjustable to an accuracy of $\pm 1\%$
Nominal output current	12 A at 40°C, 10 A at 60°C
Efficiency	0.9
Mains failure bridging	> 10 ms
Effective ripple	< 20 mV
Protection	Overload and short circuit protected, Pre-warning and switch off when overload, Alarm signal with relay contact
LED indicator	LED green in operation, LED red shut down, LED yellow pre-warning of overload or high temp.
Parallel usage	Max. 3 units, minimum load 5% of $I_{nominal}$
Alarm output	Relay contact max. 60 V DC/0.2 A, Collective alarm for all faults and pre-warnings, Quit via the green reset button

General data	
Standards	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 Part 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
	1.7 kg
	2.4 kg

Dimension drawing/fixing centers	
Dimensions	D x W x H
	10 A Unit - 132 x 200 x 101 mm
	20 A Unit - 132 x 245 x 133 mm



Notes
In order to guarantee heat dissipation by convection, the unit must be mounted horizontally, on the back panel. The units can be switched to battery charger mode via a DIP switch. The output from two units can be connected in series to give either 48 V DC or $\pm 24$ V DC voltages.