



# CONVERTERS / RECTIFIERS

- Compact design
- Galvanic separation
- Switch mode models

## SMALL VOLTAGE CONVERTERS

Voltages in control systems often have to be converted. The DC/DC converters in the MDD series do this perfectly! It doesn't matter if you need 5, 10, 12 or 24 volts – Murrelektronik has the right product.

If there is only AC voltage available, the NG rectifier series can convert into DC voltage. All models can be conveniently mounted in the control cabinet on DIN rail.

## AC/DC and DC/DC Converters



MDD, GLS, GSS, NG, NT

- Output current range: 0.5...4A

*Page 1.6.1*

## Rectifiers



NG

- Output current range: 2.6...10A

*Page 1.6.3*



# CONVERTERS / RECTIFIERS

## DC/DC converters

### – AC/DC converters

#### GLS

OUTPUT regulated: 5 V DC  
Current: 1.2 A



#### GSS

OUTPUT switched mode: 5 V DC  
Current: 4 A

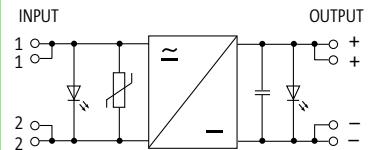
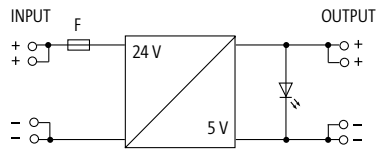


#### NT

OUTPUT: 5...35 V DC  
Current: 3.5 A



### Circuit diagram

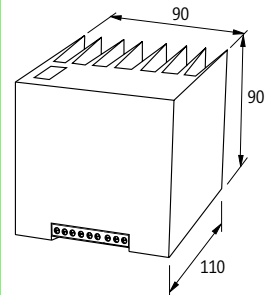
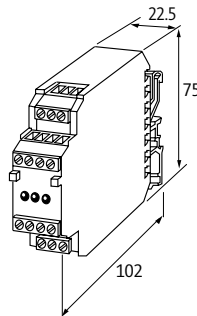
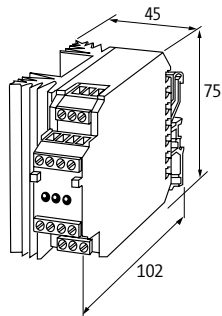


Order Data	Art-No.	Art-No.	Art-No.
5 V DC/1.2 A	85600		
5 V DC/4 A		85650	
5...35 V DC/3.5 A			85660

Input			
Input voltage	24 V DC (+10/-15 %)	15...40 V DC	10...32 V AC; 12...42 V DC
Input current	1.2 A	1 A, 4 A (24 V DC)	max. 3 A
Input fuse (internal)	2 A (T)		6.3 A (T)
Frequency	–		50/60 Hz
Output			
Output voltage	5 V DC (SELV), ±5 %		5...35 V DC (SELV), U <sub>out-max.</sub> = U <sub>in</sub> - 5 V
Output current	max. 1.2 A	max. 4 A	max. 3.5 A
Ripple	max. 0.2 % eff		max. 300 mV rms
Output fuse	short-circuit protected		

General data			
Temperature range	-20...+60 °C, no condensation		
Mounting method	DIN-rail mountable TH35 (EN 60715)		

### Dimension drawing



## Rectifier modules

– Single-phase

– IP00

### NG 2

INPUT: max. 41 V AC



### NG 5

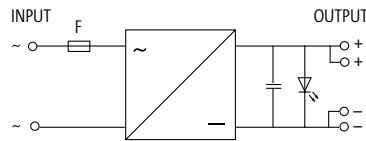
INPUT: max. 41 V AC

### NG 10

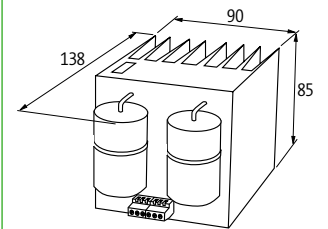
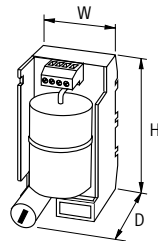
INPUT: max. 29 V AC



## Circuit diagram



Order Data	H×W×D	Art-No.	H×W×D	Art-No.	H×W×D	Art-No.
24 V DC/2.6 A	86×45×92 mm	85700				
24 V DC/5 A			90×68×87 mm	85710		
24 V DC/10 A						85730
<b>Input</b>						
Input voltage	max. 5...44 V AC			max. 29 V AC		
Input current	max. 2.6 A; 1.8 A (+60 °C)			max. 5 A; 4 A (+60 °C)		
Frequency	45...65 Hz			50/60 Hz (or as additional smoothing for DC)		
Input fuse (external)	–			8 A (T), 5 × 20 mm		
Input fuse (internal)	3.15 A (T), 5 × 20 mm			–		
<b>Output</b>						
Output voltage	U-IN × 1.16/max. 60 V DC			U-IN × 1.16/max. 39 V DC		
Output current	max. 2.6 A; 1.8 A (+60 °C)			max. 5 A; 4 A (+60 °C)		
Ripple	max. 5 % rms					
Output filter	smoothed with smoothing capacitor and LED					
<b>General data</b>						
Temperature range	-20...+60 °C					
Mounting method	DIN-rail mountable TH35 (EN 60715)					
<b>Dimension drawing</b>						



Murrelektronik Online Shop  
[onlineshop.murrelektronik.com/en](http://onlineshop.murrelektronik.com/en)

## Notes