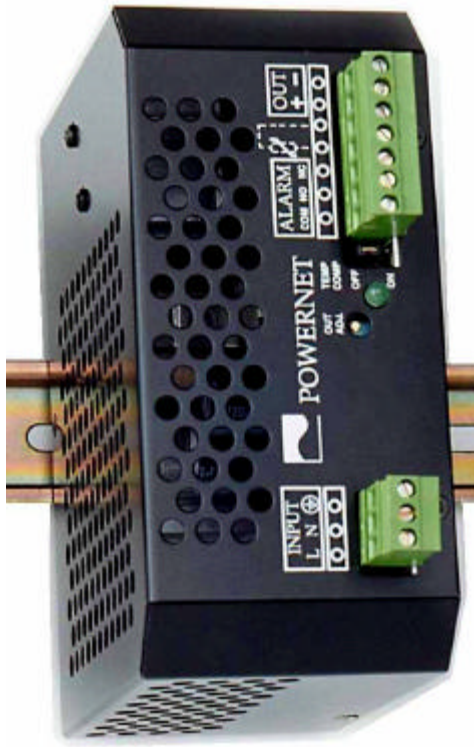


# DDC4960 DC/DC CONVERTER FOR DIN-RAIL

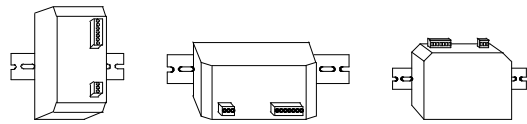


## MAIN SPECIFICATIONS:

Nominal input 110VDC  
 Nominal output 24VDC/5A  
 Galvanically isolated  
 Floating input and output  
 Parallel and series connectable  
 Operating temperature  $-40...+55^{\circ}\text{C}$   
 Output adjustable 20.5...27.5VDC  
 Power fail alarm  
 DIN-rail mounting  
 Dimensions: 66 x 148 x 113 mm

## FREE INSTALLATION CHOICE

Movable DIN-rail fasteners



Minimum  
space in DIN-rail

Narrow space

Low installation  
space

## TECHNICAL SPECIFICATION

### INPUT

Voltage $U_{in/nom}$		85 ... 150VDC
Efficiency	$U_{in} = 110\text{V}, P_{out} = P_{nom}$	>87%
Safety		according to IEC 950, Class I
Isolation		
	input / ground	1500VAC RMS 50Hz, 1min
	input / output	2000VAC RMS 50Hz, 1min
	output / ground	500VDC
EMC		
	conducted emission	EN 55022A
	radiated emission	design to meet EN 55022A
Protection		
	inrush current	limited by NTC, $I < 24\text{A}$
	over voltage	VDR 275V
	input current	Fuse T6,3A
	wrong polarity	Serial diode



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## OUTPUT 24VDC 5A

Voltage $U_{\text{outnom}}$		24,0VDC
Setting accuracy		+/- 0,5%
Adjust Range		20,5...27,5V (front panel)
Ripple voltage $U_{\text{outrms}}$	$f = 20\text{Hz}...300\text{kHz}$	15mV
Load regulation	$I_{\text{out}} = 0,5\text{A}...5\text{A}$	+/- 0,5 %
Line regulation	$U_{\text{in}} = 85...150\text{VDC}$	+/- 0,1 %
Temperature coefficient		< 0,02%/°C
Current $I_{\text{outnom}}$		5A
Current $I_{\text{outmax}}$	peak current	7A
Short Circuit Current		< 9A

## MECHANICAL

DIN-rail mounting		
Can be installed both horizontally and vertically (3 different installation choices)		
Dimensions	66 x 148 x 113mm (W x H x D)	
Weight	0,8 kg	
Enclosure	Steel / Aluminum cabinet, IP20	

## CONNECTORS

Input 3-pole PCB mounting terminal block, R 7.62mm

1	PE
2	+
3	-

Output 7-pole PCB mounting terminal block, R 5.08mm

1	OUTPUT -
2	OUTPUT +
3	Unused
4	Unused
5	ALARM, NC
6	ALARM, NO
7	ALARM, COM

## ENVIRONMENTAL

Temperature range	Storage	-40°C...+65 °C
	Operation	-40°C...+55 °C, full output power
Humidity		85% RH IEC68-2-30
Cooling		Natural convection
Vibration & shocks		ETS 300 019-2-4, class 4M5

## INDICATIONS

Power OK green led

## ALARMS

Power Fail Open and closing relay, low output voltage;  
Relay 24VDC/0.3A or 30VAC/0.5A