

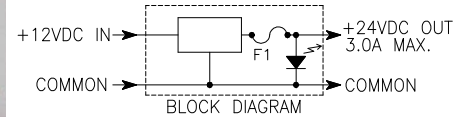
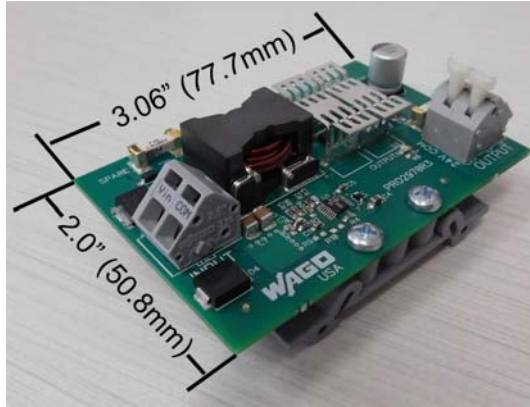


# DC-DC Converter, 72W

Step Up (Boost) Converter, 12V to 24 V, 3A Output Current, Wide Temperature Range

## Application:

Industrial or transportation systems utilizing 12VDC bus voltage requiring 24VDC to power controls or WAGO I/O Interface modules. This high efficiency module can cost effectively produce 24V DC at up to 3A (72W) in a small din-rail mount package over a temperature range of -40°C to +70°C.



Description	Item Number	Pack Unit (pcs)
12 V to 24V DC-DC Converter	tbd	10
<b>Technical Data</b>		
Input Voltage (nominal)	12 VDC	
Input voltage range	8V DC TO 16V DC	
Output voltage	24 V DC $\pm 1\%$	
Output current	3A max.	
Line regulation	0.05% max. (from 8V DC - 16V DC, full load)	
Load regulation	0.5% max. (no load to full load, 12 V DC in)	
Efficiency	95% typical (12V DC in, full load)	
Output noise & ripple	250 mV P-P <sup>1</sup> (12V DC in, full load)	
Switching frequency	350KHz (nominal)	
Isolation	Non-isolated	
Input polarity protection	Yes	
Minimum load requirements	None	
Operating temperature	-40° C to +70° C	
Temperature coefficient	50 PPM/°C	
Transient recovery time	n/a <sup>2</sup>	
Start-up time	10 mS typical (12 V DC in, full load)	
Hold-up time	200 $\mu$ sec max. (12 V DC in, full load)	
Input protection	TVS Diode	
Output short circuit protection	Fused	
AWG	28 - 12	
Stripped length	5 - 6 mm / 0.20"-.0.24"	
Dimensions (LxWxH) mm(in.)	77.7 x 50.8 x 30.5 (3.06 x 2.0 x 1.2)	
Mounting Method	DIN-Rail feet	
<b>Attention:</b> When mounting assembly to din-rail, press on the screw heads to lock the din-rail feet in place. Do not press on the circuit board or electronic components.		
Footnotes:		
<sup>1</sup> Bandwidth: 20 MHz		
<sup>2</sup> transient pulses do not exceed the error band.		
Subject to design changes		