

1 **Product information DC/DC converter for N8**



Please see safety information on last page of this product information

Fig. 1 DC/DC converter and connections



noax Part-No.:	12777
Description:	DC/DC converter; In: 8–20V; Out: 24V (N6/N8)
noax Part-No.:	12778
Description:	DC/DC converter; In: 10–30V; Out: 24V (N6/N8)
noax Part-No.:	11172
Description:	DC/DC converter; In: 18–60V; Out: 24V (N6/N8)
noax Part-No.:	11270
Description:	DC/DC converter; In: 60–140V; Out: 24V (N6/N8)

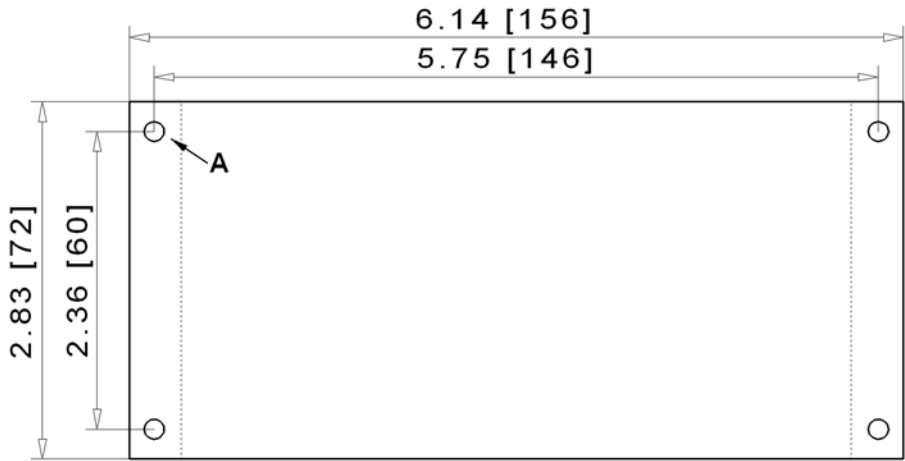
1.1 **Technical data**

noax Part-No.:	12777	12778	11172	11270
Supplier Part-No.:	8WDWGV82	8WDWGV19	8WDWGV06	8WDWGV10
Typical input voltage:	14V DC	14V DC	39V DC	80V DC
Input voltage range:	8V – 20V DC	10V – 30V DC	18V – 60V DC	60V – 140V DC
Input overload fuse:	10A / 5 x 20 mm medium slow	10A / 5 x 20 mm medium slow	6,3A / 5 x 20 mm fast	4,0A / 5 x 20 mm fast
Output voltage:	24V	24V	24V	24V
Max. output current:	2,5A	2,5A	3,3A	5A
Max. output Power:	60W	60W	80W	120W
Temperature range:	-13°F – +140°F (-25°C – +60°C)			
Peak voltage resistance:	up to 10 times the typical input voltage for 20 µs			
Short-circuit proof output:	2 min. at typical input voltage			
Safety:	galvanic isolation, input protected against revers polarity, soft start, LED for operational status			
Enclosure protection type:	IP20 (NEMA1)			
Dimensions:	3.03 x 2.76 x 6.14 inch (77 x 70 x 156 mm) W x H x L			
Connections:	6,3mm tongue connector (mating Terminal e.g. JST STO-Series)			

1.2 **Mounting of the DC/DC converter**

Please use the following drawing for mounting the DC/DC converter.
Pay attention to a secure mounting!

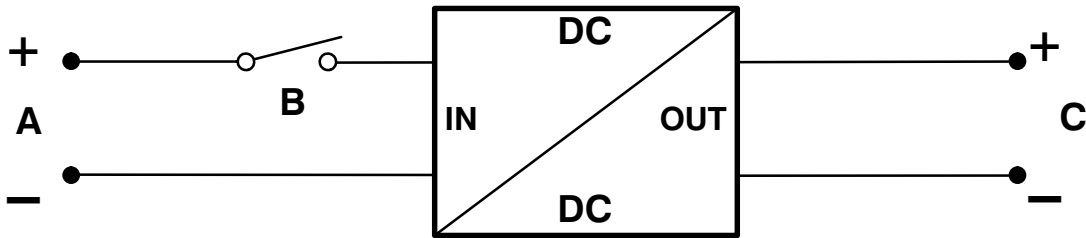
Fig. 2 Mounting holes of DC/DC converter (all dimensions in inch [mm])



A – 4 Holes, each 1.6 inch (4.0 mm) in diameter

1.3 **Connection example**

Fig. 3 Example for connecting the DC/DC converter



A – Power source (e.g. Battery)

C – Load (e.g. IPC)

B – e.g. Key switch



Connecting the DC/DC converter to the power source and the Industrial PC has to be carried out only by authorized personal. Please see safety information an last page.

1.4 **Accessories**

noax Part–No.:	11514
Description:	Cable from power source to DC/DC converter Length 118 inch (3.0m)
noax Part–No.:	12588–1,5M
Description:	Cable from DC/DC converter to IPC (N6/N8) Length 59 inch (1.5m)
noax Part–No.:	12588–3,0M
Description:	Cable from DC/DC converter to IPC (N6/N8) Length 118 inch (3.0m)
noax Part–No.:	12588–5,0M
Description:	Cable from DC/DC converter to IPC (N6/N8) Length 197 inch (5.0m)

1.5 Safety information



The output voltage of the power source has to be kept within the limits of the input voltage range of the DC/DC converter. Please see technical data. If the input voltage of the converter exceeds the allowed max. input voltage the converter will be damaged seriously.

Pay attention to the voltage needed by the load! Use only a suitable DC/DC converter!

Before working on the wiring for the power source or the load, the power source has to be disconnected from the electrical system.

Attention: Don't touch the poles of the power source or the battery!



If you need to replace the input overload fuse ensure to use a fuse meeting the technical specifications from chapter 1.1.



For safety requirements the DC/DC converter has to be easily disconnected from the power source. Therefore the positive pole of the connection cable from the power source to the DC/DC converter has to be wired over a key switch or a suitable additional switch.



Connecting the DC/DC converter to the power source and the Industrial PC should be carried out only by authorized personal.



To ensure a normal function of the converter, connection cables should be dimensioned as short as possible.

Previous to initial operation all connections have to be checked for false polarity and short-circuit. The power source should be only reconnected after a successful check.

The LED shows readiness for operation.



Pay attention to the cable diameter

For a cable length up to 197 inch (5.0m) from the DC/DC converter to the Industrial PC please use a minimum cable diameter of AWG 16 (1.5mm²) for each pole. If the cable length exceeds 197 inch (5.0m) the cable diameter has to be increased suitably.

Due to an undersized cable diameter a major voltage drop on the cable may occur. This can cause input voltage errors at the Industrial PC.



Pay attention to a vertical mounting of the cooling fins to ensure a good air flow through the cooling fins. The allowed ambient temperature must not exceed the limits!

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