



# Product information DC/DC converter for N7



Please see safety information on last page of this product information



noax Part-No .:	12767	
Description:	DC/DC converter; In: 8–20V; Out: 12V (N7)	
noax Part-No.:	12774	
noax Fait-No	12/14	
Description:	DC/DC converter; In: 10–30V; Out: 12V (N7)	
noax Part-No.:	11976	
Description:	DC/DC converter; In: 18–60V; Out: 12V (N7)	
noax Part-No.:	11977	
Description:	DC/DC converter; In: 60-140V; Out: 12V (N7)	

### 1.1 Technical data

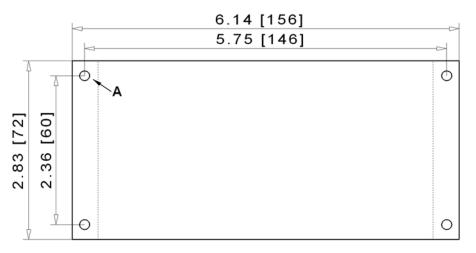
noax Part-No.:	12767	12774	11976	11977		
Supplier Part-No.:	8WDWGV81	8WDWGV67	8WDWGV05	8WDWGV09		
Typical input voltage:	14V DC	14V DC	39V DC	80V DC		
Input voltage range:	8V – 20V DC	10V – 30V DC	18V – 60V DC	60V - 140V DC		
Input overload fuse:	10A / 5 x 20 mm medium slow	10A / 5 x 20 mm medium slow	6,3A / 5 x 20 mm fast	4,0A / 5 x 20 mm fast		
Output voltage:	12V	12V	12V	12V		
Max. output current:	5,0A	5,0A	6,6A	10A		
Max. output Power:	60W	60W	80W	120W		
Temperature range:	-13°F – +140°F (-25°C – +60°C)					
Peak voltage resistance:	up to 10 times th	up to 10 times the typical input voltage for 20 $\mu$ s				
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!

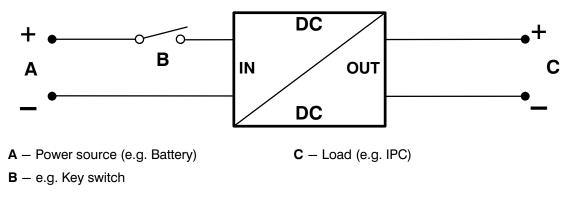




A - 4 Holes, each 1.6 inch (4.0 mm) in diameter

#### 1.3 Connection example

Fig. 3 Example for connecting the DC/DC converter



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 on 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.:	12587—1,5M	
Description:	Cable from DC/DC converter to IPC (N7) Length 59 inch (1.5m)	
noax Part-No.:	12587—3,0M	
Description:	Cable from DC/DC converter to IPC (N7) Length 118 inch (3.0m)	

#### 1.5 Safety information

Technologies

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 has to 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 shortcircuit. The power source should be only reconnected after a successfull check.

The LED shows readiness for operation.



Pay attention to the cable diameter!

For a cable lenght up to 118 inch (3.0m) from the DC/DC converter to the Industrial PC please use a minimum cable diameter of AWG 16 (1.5mm<sup>2</sup>) for each pole. If the cable length exceeds 118 inch (3.0m) 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!

#### noax Technologies AG

Am Forst 6 85560 Ebersberg (Germany) Tel. +49 (0) 8092 8536 0 Fax +49 (0) 8092 8536 55

Hotline: +49 (0) 8092 8536 33 hotline@noax.com

#### noax Technologies Corp.

10115 Kincey Avenue, Suite 142 Huntersville, NC 28078 (USA)

Phone +1 704 992 1606 Fax +1 704 992 1712

## Hotline: +1 704 992 1606 hotline@noaxna.com