

**The converter features:**

- supply output 0,5A/12VDC\*
- DC power supply range 12÷30V
- High efficiency 86%
- Protections:
  - against reverse input voltage polarity
- warranty – 1 year from the production date

**1. Technical description.**

**1.1. General description.**

The converter is designed to supply devices requiring stabilized voltage of 12V DC. The maximum load current is 0,5A\* (Pmax= 6W). The module does not feature galvanic isolation between input/output (Input-Output), and operates on common "ground" (0V) potential. The inverter is protected against reverse polarity of the input voltage.

**1.2. Technical parameters.**

|                                       |   |
|---------------------------------------|---|
| Input voltage (power supply)          | 12÷30V DC   |
| Module power                          | 6W max.   |
| Efficiency                            | 86%   |
| Output voltage range                  | 12V DC  |
| Current consumption by module systems | 25mA max.   |
| Output current $t_{AMB}<30^{\circ}C$  | <b>0,5A - see chart 1</b>   |
| Output current $t_{AMB}<40^{\circ}C$  | <b>0,35A - see chart 1</b>  |
| Ripple voltage                        | 150mV p-p max.  |
| Operating conditions                  | II environmental class, $-10^{\circ}C \div 40^{\circ}C$ , ensure air flow around the unit for convection cooling.<br>Relative humidity 20%...90%, without condensation. |
| Dimensions (LxWxH)                    | 50 x 20 x 18 [mm]   |
| Net/gross weight                      | 0,03kg / 0,03kg   |
| DC length of input cable              | 0,13m + DC plug 5,5/2,1 male  |
| DC length of output cable             | 0,13m + DC plug 5,5/2,1 femal   |
| Storage temperature                   | $-20^{\circ}C \dots +60^{\circ}C$   |

\* In order to extend the life of the power supply, the load current of 0,35A is recommended.

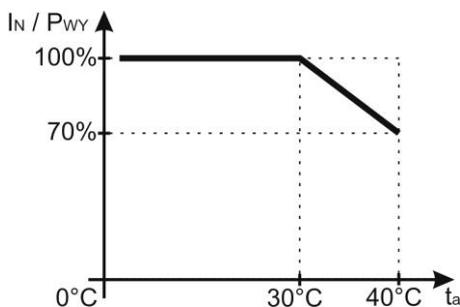


Chart 1.  
 Relation between output current and ambient temperature (instantaneous load).

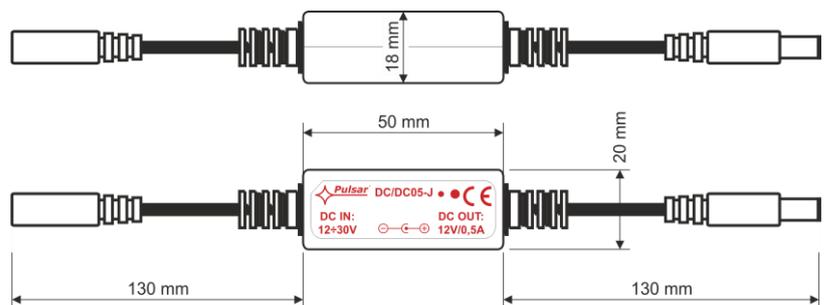


Fig.1. The mechanical diagram of the converter.

\* See chart 1

### 1.3. Accessories

For the converters are available accessories - cable adapter. For details –visit [www.pulsar.pl](http://www.pulsar.pl).

## 2. Installation.

### 2.1. Requirements.

The DC/DC converter is to be mounted by a qualified installer, holding relevant permits and licenses (applicable and required for a given country) for step down installations. The module should be mounted in confined spaces with normal relative humidity (RH=90% maximum, no condensation) and temperature range from -10°C up to +40°C. The rules for power supply, enclosures and shielding - according to application - must be observed in order to meet the requirements of LVD and EMC directives.

### 2.2. Installation procedure.

1. Fit the converter inside the device.
2. Connect the converter input cables to the DC voltage source, according to polarity.
3. Connect the converter DC output cables to the load.
4. Once the tests and operation control are performed, close the enclosure, cabinet, etc.

## 3. Maintenance.

All maintenance procedures can be performed after disconnecting the converter from the power network. The converter does not require any specific maintenance; however, its interior should be cleaned with compressed air if used in dusty conditions.



### WEEE LABEL

**Waste electrical and electronic equipment must not be disposed of with normal household waste. According to the European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.**

---

### Pulsar

Siedlec 150, 32-744 Łapczyca, Polska  
Tel. (+48) 14-610-19-40, Fax. (+48) 14-610-19-50  
e-mail: [biuro@pulsar.pl](mailto:biuro@pulsar.pl), [sales@pulsar.pl](mailto:sales@pulsar.pl)  
http:// [www.pulsar.pl](http://www.pulsar.pl), [www.zasilacze.pl](http://www.zasilacze.pl)