

## DC / DC Power Supply 19 Vdc Output

type numbers: 00122 | 00906



type number  
00122



type number  
00906

### Description:

This family of DC / DC power supplies is designed for automotive applications to be used under harsh environmental conditions. It operates as buck converter at a frequency of 80kHz.

### General features:

|                       |                              |
|-----------------------|------------------------------|
| Input according to:   | VG 96916 -5                  |
| Safety according to:  | EN 60950-1                   |
| Isolation Voltage:    | 200 Vdc In-Out               |
| Isolation resistance: | 10 <sup>7</sup> Ω            |
| Dimensions:           | 175 x 113 x 58mm (W x D x H) |
| Weight:               | approx. 1 kg                 |

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Ask for further technical information!  
Functional or interface modifications can be realized on request. Each configuration change causes a new type number.

### Technical Data:

|                     |  |
|---------------------|--|
| Input voltage:      | 16,0 Vdc to 34,0 Vdc   |
| Consumption:        | 0,02 A to 3,0 A at 24 Vdc  |
| Output voltage:     | 19,0 Vdc ±0,2 Vdc indicated by LED on top  |
| Output current:     | 4,2 A  |
| Connector in / out: | SJT / SJT  |
| Efficiency:         | typ. >83 % at 24 Vdc   |
| Protected against:  | <ul style="list-style-type: none"> <li>■ input reverse polarity</li> <li>■ over voltage</li> <li>■ short-circuit</li> <li>■ no-load</li> </ul> |
| Ripple & noise:     | <20 mV RMS at 20 MHz   |

### Environmental Conditions:

|                |  |
|----------------|--|
| Protection:    | IP 65 (EN 60529)   |
| EMC: VG 95373: | LA01; SA02; SA04; LF01; LF02; LF03; LF05; SF03; SF01           |
| MIL-STD 461E:  | CE102; CS101; CS114; CS115; CS116; RE101; RE102; RS101; RS 103 |

### Conditions according to MIL-STD-810F:

|                          |  |
|--------------------------|--|
| Temperature:             | -40 °C to +85 °C (operating)<br>-46 °C to +90 °C (storage) |
| Temp. shock:             | -40 °C to +70 °C (ΔT <1min)                                |
| Humidity:                | up to 95 % rel.  |
| Low pressure (altitude): | up to 4500 m operating                                     |
| Vibration:               | 1,5 g, 60 Hz to 400 Hz<br>1,0 g, 400 Hz to 2000 Hz         |
| Shock :                  | 10 g, 6 ms (operating)                                     |

### Option:

Output: 24 Vdc / 4,0 A