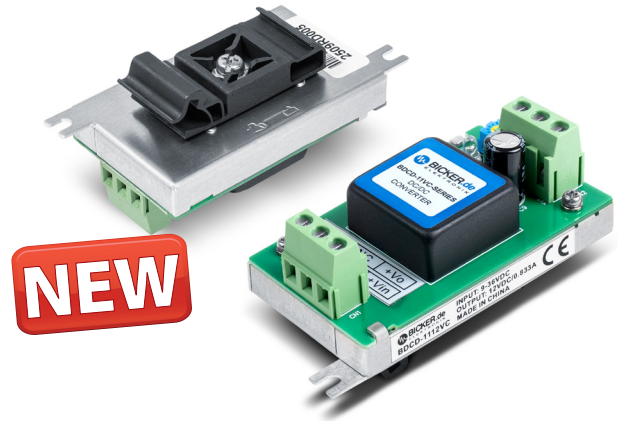


BDCD-11VC

10 Watt

- ✓ DC/DC converter modules
- ✓ DIN Rail version
- ✓ 4:1 input voltage range 9–36 VDC
- ✓ Input / Output galvanically insulated
- ✓ High efficiency up to 88 %
- ✓ Extended temperature range -40...+70 °C
- ✓ Insulation voltage 1500 VDC
- ✓ Operating altitude 5000 m



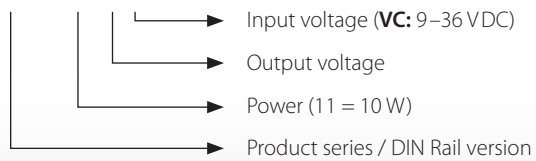
Article No.	Output power	Input voltage	Output voltage	Output current min	Output current max	Efficiency (typ)
BDCD-1105VC	10 W	9–36 VDC (24 VDC nom.)	+5 V	0 mA	2000 mA	83 %
BDCD-1112VC			+12 V	0 mA	833 mA	87 %
BDCD-1124VC			+24 V	0 mA	417 mA	88 %

└─ suffix **D**: DIN Rail model with detachable DIN Rail mounting plate

Further types in different input and output voltages are available on request.

How to read the Article No.

BDCD - XX YY Z



Technical data	
Input voltage	24 VDC (9–36 VDC)
Input current max.	502 mA
Starting time	10 ms
Input fuse	2 A fast to be added by customer (page 3) for line protection
Output voltage accuracy	±1.5 % max., 4 to 100% load
Output voltage adjust range	VR 5 V/12 V ±10%, 24 V N.A.
Line regulation	±0.3% from high line to low line
Load regulation	±5%, measured from full load to no load
Ripple & Noise*	5 V/12 V: 100 mV _{pp} max, 24 V: 200 mV _{pp}
Capacitive load	5 V/2000 µF, 12 V/833 µF, 24 V/417 µF
Remote on/off control	ON: 3.5 – 36 V or open circuit OFF: 0 – 1.2 V
Protection	<div> <div>Overvoltage protection</div> <div>Short circuit protection</div> <div>Input under-voltage protection</div> <div>Overcurrent protection</div> <div>Input reverse protection (TVS or Zener diode)</div> </div> <div> <div>50V surge for 100 msec at input auto-recovery</div> <div>8.4V</div> <div>110...170%</div> <div>if reverse input polarity, the fuse will protect converter by melting</div> </div>
LED	LED ON, DCDC ON
Insulation voltage	Input-Output: 1500 VDC
Insulation resistance	Input-Output: 1000 MΩ
Insulation capacity	2000 pF
Switching frequency	530 kHz
MTBF	>1 000 000 h according to MIL-HDBK-217F @25 °C
Material	Base plate: aluminium DC module: black coated copper
Temperature	Operating: -40...+70 °C / Storage: -55...+85 °C
Derating	See derating diagram
Max. operation altitude	5000 m
Humidity	Operating: 10...85% RH, non-condensing / Storage: 10...90% RH, non-condensing
Vibration	MIL-STD-810F
Dimensions (W x D x H)	84.2 x 37.5 x 38.4 mm
Weight (net)	60 g

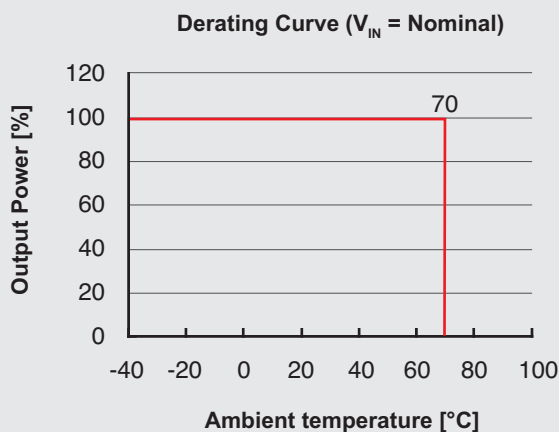
* Ripple & Noise was measured with 1 µF ceramic capacitor. All data was measured at +25 °C, operating humidity <75 %, nominal input voltage. We recommend to use a cable as short as possible to connect module and load. As a power component this modul is for assembly purposes only and it must not be operated in unassembled condition.

DISPOSAL

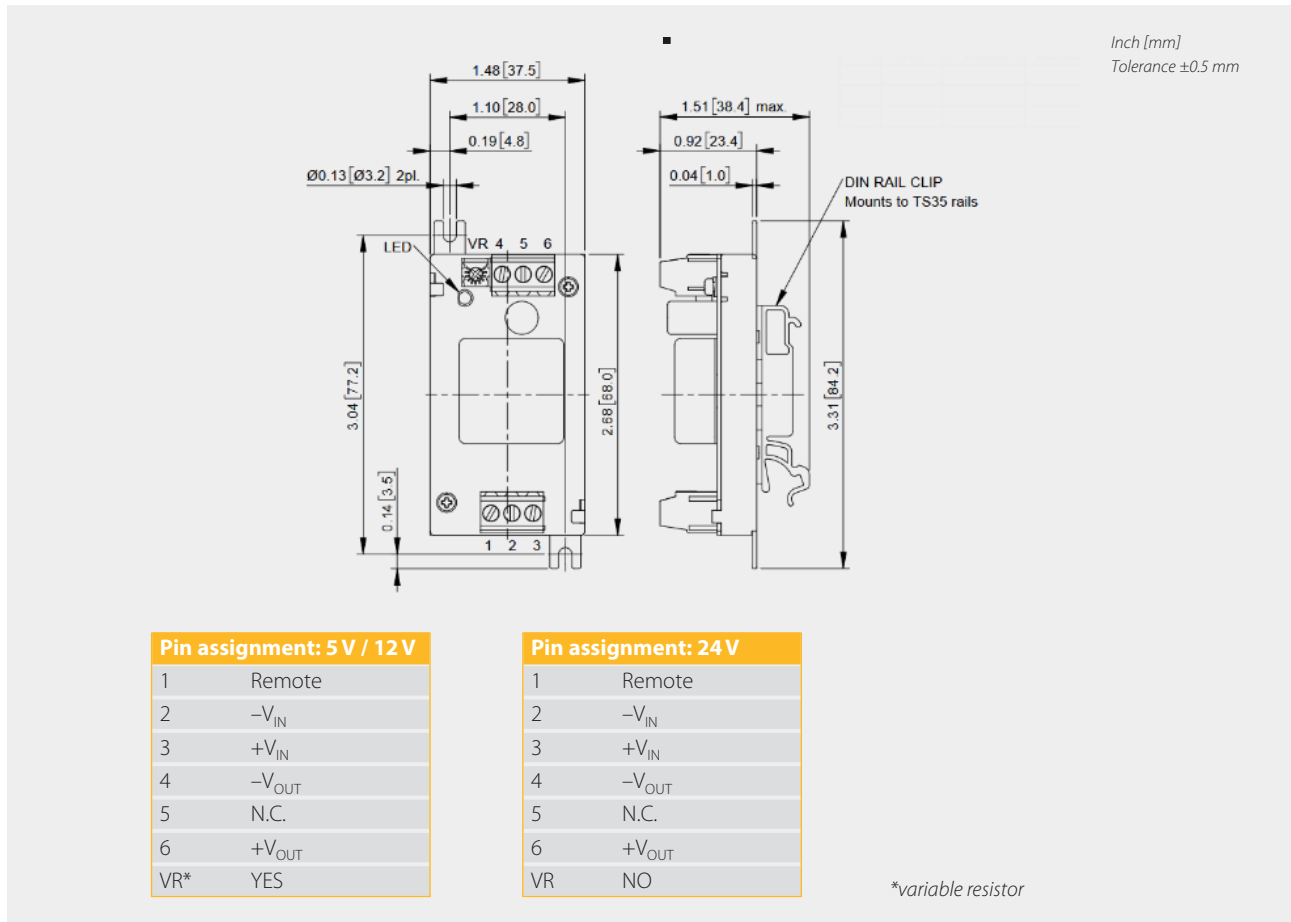
Electric and electronic devices must not be disposed with domestic waste!



Derating



Drawing



Line protection

