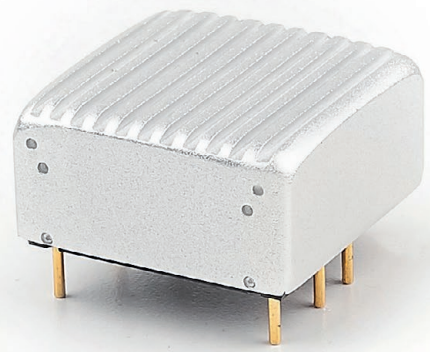
BDC-12-12-VT

12 Watt

- **DC/DC converter module**
- **10:1 ultra wide input voltage range**
- **Compact fully encapsulated module in metal case**
- **High efficiency up to 85 %**
- **Extended temperature range -45...+115 °C**
- **Insulation voltage 1600 VDC**



Technical data

Input range	6–60 VDC (30 VDC nom)
Input current	5 mA typ
Starting time	20 ms typ
Output voltage accuracy	±1.5 % typ (50 % load)
Load regulation	±0.5 % (typ)
Ripple & Noise*	1.5 % V_{pk-pk}
Protection	Overvoltage protection 120 % Short circuit protection Yes, on output Overlaod protection 120 %
Insulation voltage	Input-Output: 1600 VDC
Insulation resistance	Input-Output: 100 MΩ (at 500 VDC) min.
Insulation capacity	Input-Output: 1500 pF typ.
Switching frequency	260 KHz, typ.
Chassis material	Aluminium + FR4
Temperature	Operating: -45…+115 °C / Storage: -55…+125 °C
Humidity	Operating: 10…95 % RH, non-condensing / Storage: 10…95 % RH, non-condensing
Dimensions (W x D x H)	Print: 25.4 x 25.4 x 12.7 mm
Weight (net)	Print: 18 g

** Ripple & Noise was measured at bandwidth 20 MHz and with 1 µF MLCC output capacitor. All data was measured at +25 °C and nominal input voltage.*
As a power component this modul is for assembly purposes only and it must not be operated in unassembled condition.

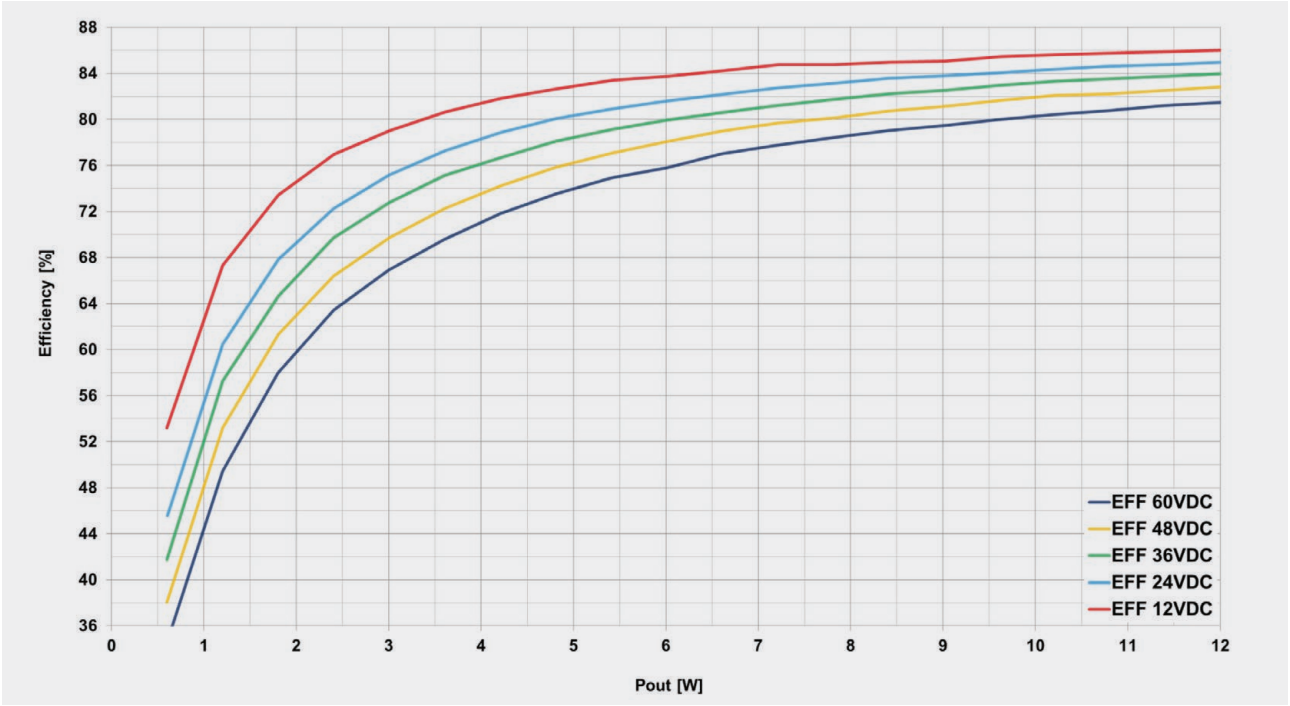
Article No.	Output power	Input voltage	Output voltage	Output current min	Output current max	Efficiency (typ)
BDC-12-12-VT	12 W	6–60 VDC (30 nom)	+12 V	0 mA	1 A	85 %

How to read the Article No.

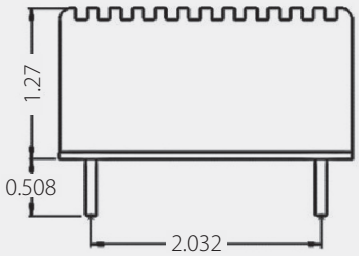
BDC * - XX YY Z

- Input voltage (**VT:** 6–60 VDC)
- Output voltage
- Power (12 = 12 W)
- * **With „D“:** DIN Rail and chassis mounting / **Without „D“:** print mounting
- Product series

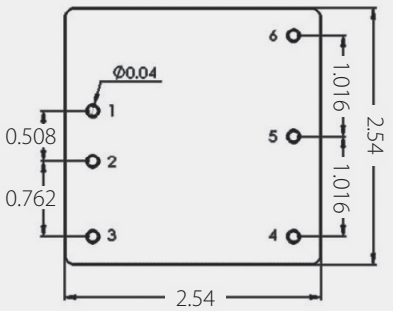
Efficiency Curve



Drawing



Side View



Bottom View

Pin assignment	
1	+Vin
2	–Vin
3	Enable
4	+Vout
5	Trim
6	+Vout

Tolerance ±0.5 mm