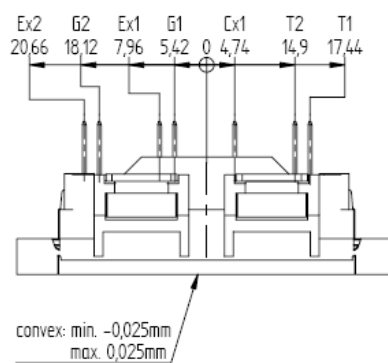
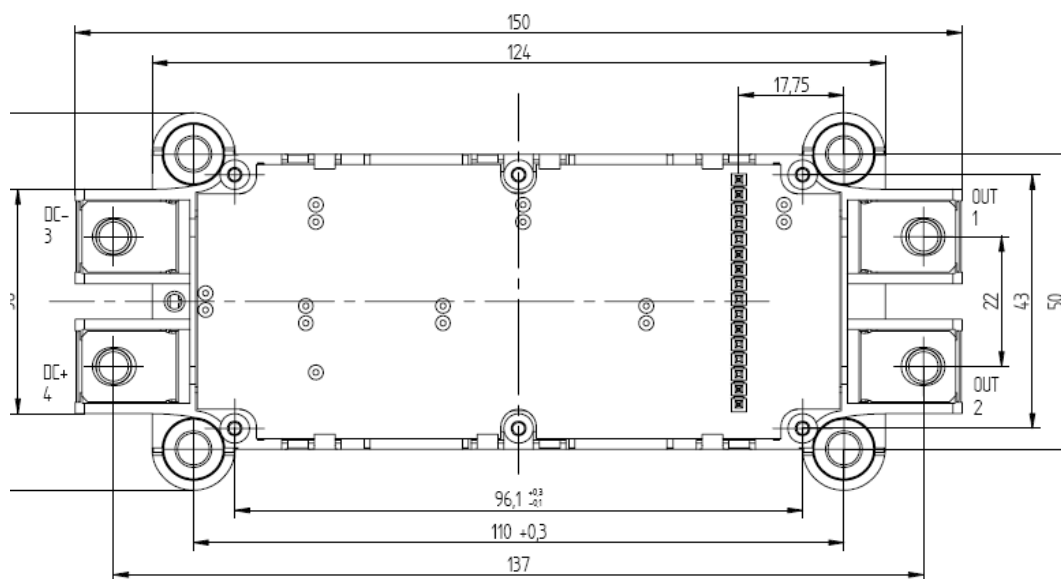
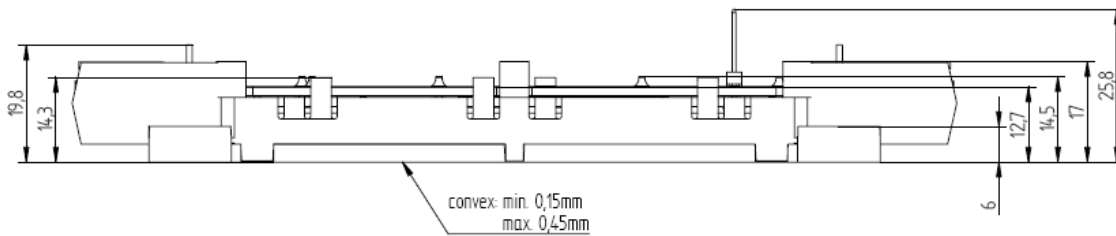


# ***flowSCREW3***

## Package Dimensions



## Handling Instructions

### with respect to the PCB

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- The module is to be screwed into the PCB using 4 screws of type BN82428 with D = 2,5mm and L = 6mm
- After screwing, all pins are to be soldered into the PCB
- During assembly, the pins are not to be drawn or pushed more than  $\pm 0.2$  mm or loaded with a force greater than 35N
- The load of the pin is not to exceed  $\pm 5$ N at a maximum substrate temperature of 100°C
- Vibration stress on the pins is to be avoided

### with respect to the heatsink

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- The heatsink surface must be clean and free of particles
- The flatness is to stay below 0.05 mm in 100 mm
- The surface roughness is not to exceed an  $R_z$  of 0.01 mm

### with respect to the thermal paste

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- The thermal conducting paste is to be applied to the entire module plate with a thickness between 0.05 mm and 0.1mm
- Thicker thermal paste can potentially raise the value of  $R_{th}$

### with respect to the fastening screws to the heatsink

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- The maximum height of the screw head plus the washers is not to exceed 7mm
- To be used is an M5 screw with a washer and a spring washer
- The screws are to be tightened using half torque first
- In the second step, all screws are to be tightened applying the full torque
- To be used is an DIN 433 1+2 (1990-03) washer or a DIN 128 (1994-10) spring washer
- To be applied is a mounting torque of  $3.8\text{Nm} \leq M_a \leq 4.2\text{Nm}$
- The mounting force between PCB/Housing and baseplate is not to exceed 150N at 25°C for short periods and 50N at 100°C continuous

### with respect to the main terminal connections to the busbars

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- To be used is an M6 screw, L = 10mm, with a washer and a spring washer
- To be used is an DIN 433 1+2 (1990-03) washer or a DIN 128 (1994-10) spring washer
- To be applied is a mounting torque of  $6.7\text{Nm} \leq M_a \leq 7.4\text{Nm}$
- The allowed pulling forces on the main terminals are 100N in the x, y and z direction, and 500N in the -z direction (downwards)

**PRODUCT STATUS DEFINITIONS**

Datasheet Status	Product Status	Definition
Target	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice. The data contained is exclusively intended for technically trained staff.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data may be published at a later date. Vincotech reserves the right to make changes at any time without notice in order to improve design. The data contained is exclusively intended for technically trained staff.
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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.