



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



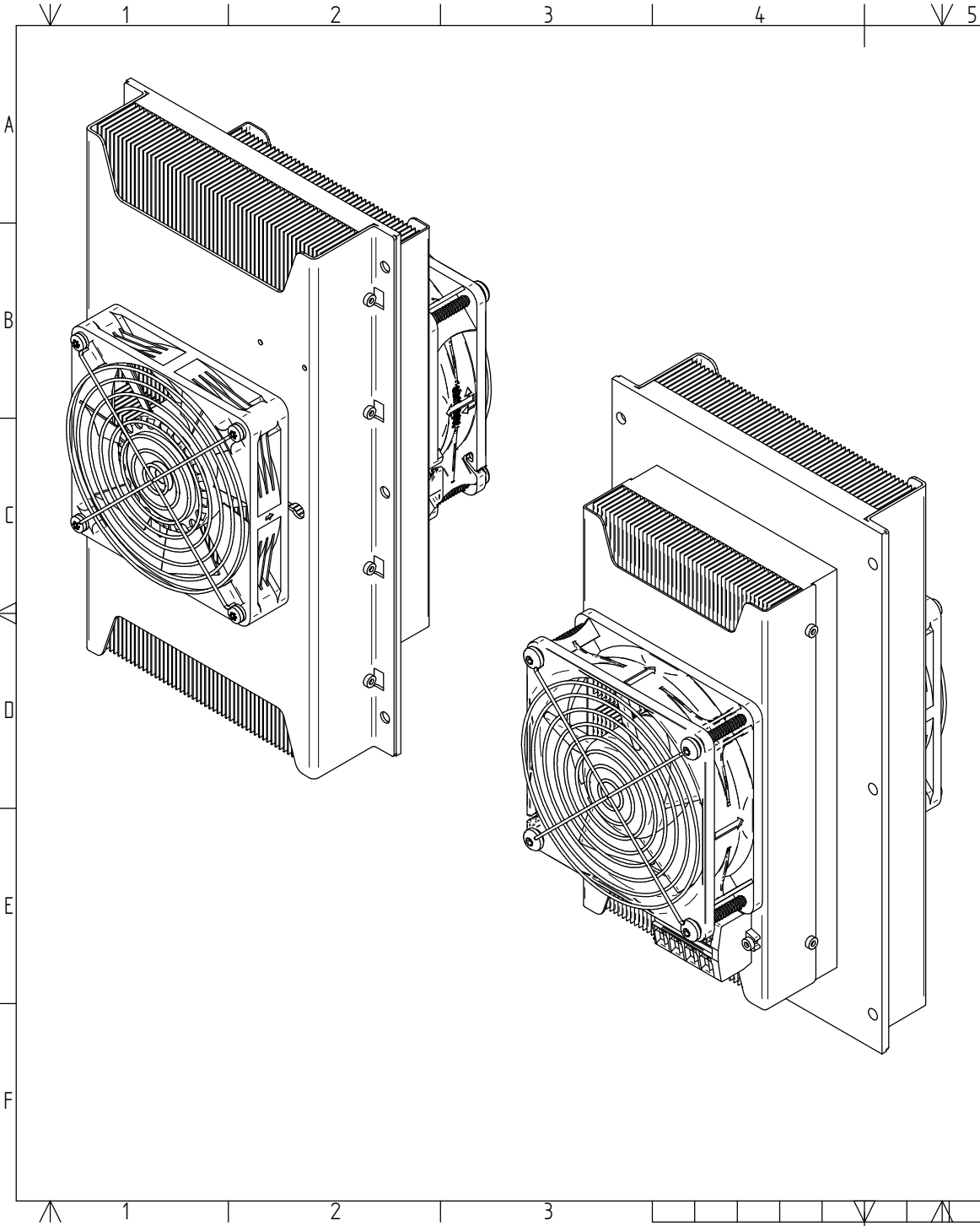
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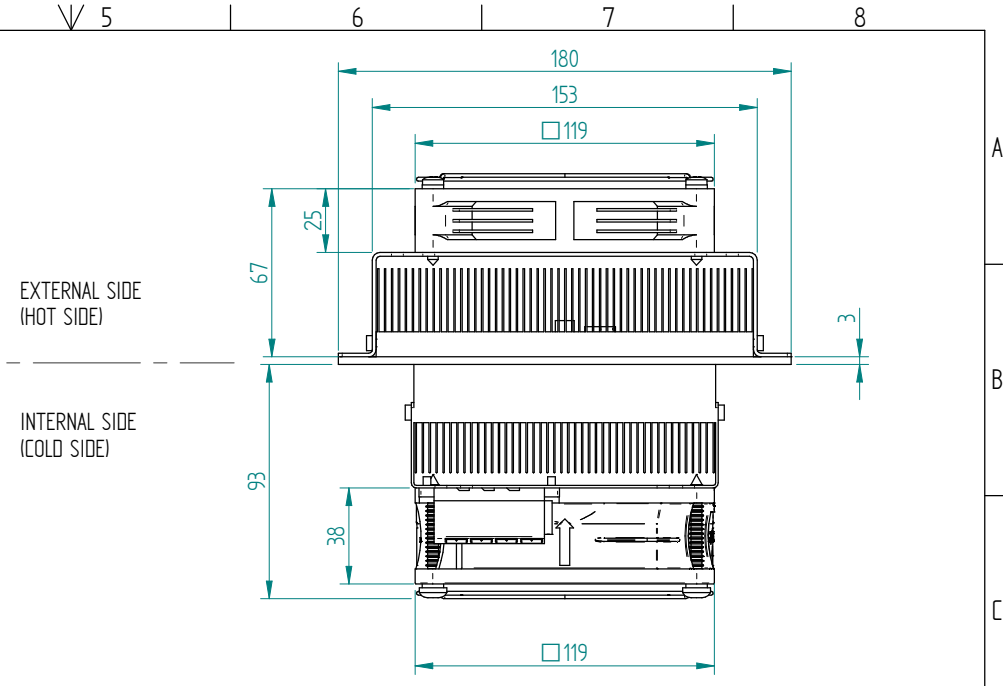
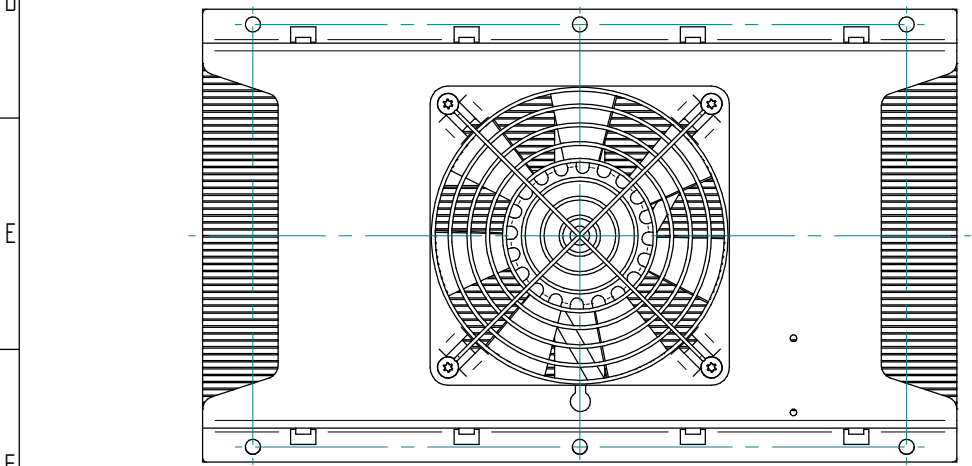
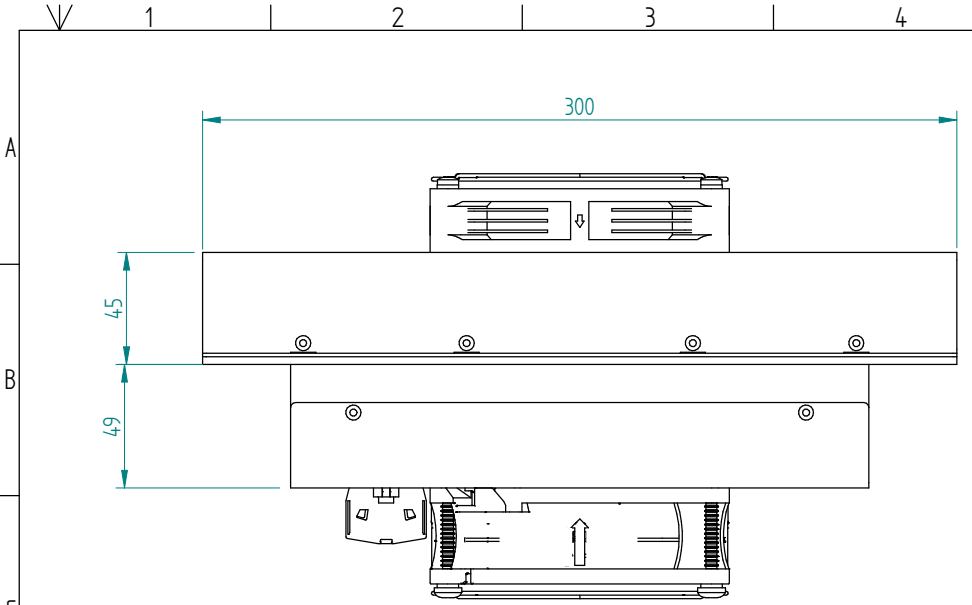


Description:		Code:	Specification: (Ta=35°C, dT=0°C)
Heat transfer, cold side:	A	Air	
Heat transfer, warm side:	A	Air	
Cascade:	-	No	
Cooling power: [W]	100	166 W (Tolerance: ±10%)	
TEA Voltage, nominal: [VDC]	24	24 VDC	
TEM Voltage: [VDC]		Nominal: 24 VDC (Max: 30 VDC)	
TBM Current: [A]		Nominal: 6.9 A, Initial: 8.1 A (Calculated, Tolerance: ±10%)	
Fans, cold side:	2	Nominal current: 0.17 A, Voltage range: 18 - 28 VDC, L10: 65,000 hrs. at 40°C	
Fans, warm side:	2	Nominal current: 0.5 A, Voltage range: 18 - 26.4 VDC, L10: 60,000 hrs. at 40°C	
Temperature controller, sensor:	0	None	
Temperature control settings, trim options:	0	-	
Temperature control position:	0	-	
Additional controller information:	0	-	
Overheating thermostat:		None	
Operating temperature:		-20°C to +70°C at nominal voltage.	
TE-Module(s) temperature specification:		Max. surface temperature: 80°C	
Enclosed:		-	

General tolerances: SS-ISO 2768-1 v
 First angle projection: Dimension units: Metric: [mm]

Comment/Treating: Hi-Pot tested 750VDC					
Designed by: A. Kim	Checked by: M. Karlstedt	Approved by: A. Kim	Release date: 2018-03-24	Project: BOOSTED	
 <small>E-mail: info@gothenburg@lairdtech.com Web: www.lairdtech.com</small>			Title: TE ASSEMBLY AIR-AIR, 100W,24VDC		
			Part nr: 387000612	Rev: 03	Scale: -

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Warning:
Do not reverse current or use PWM-regulation on fan supply.

General tolerances: SS-ISO 2768-1 v		First angle projection	Dimension units: Metric: [mm]
Comment/Treating: Hi-Pot tested 750VDC			
Designed by: A. Kim	Checked by: M. Karlstedt	Approved by: A. Kim	Release date: 2018-03-24
Project: BOOSTED		Title: TE ASSEMBLY AIR-AIR, 100W,24VDC	
Part nr. 387000612		Rev. 03	Scale: Size, sheet - A3, 2/5
E-mail: info.gothenburg@lairdtech.com Web: www.lairdtech.com			

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Installation and Service manual

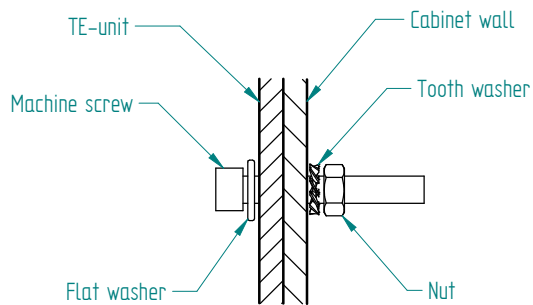
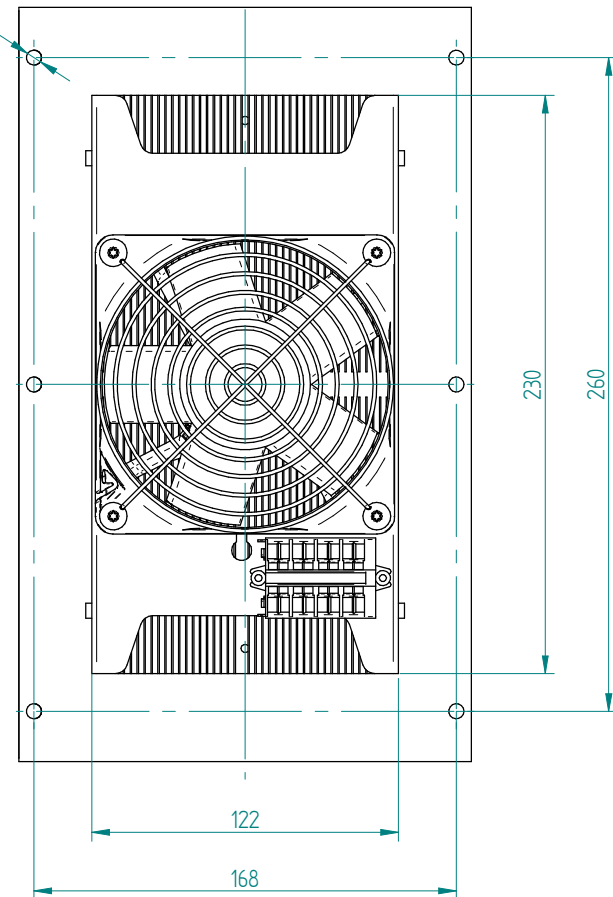
Installation:

1. The TE assembly must be mounted in a cabinet with "Hot side" mounted externally.
2. Suitable cabinet cutout is **124x232** mm.
3. Recommended for general purposes: the TE assembly should be fastened according to picture below so that the gasket material will seal off around the flange of the assembly.
4. **The TE assembly must be positioned in vertical direction with wires facing downwards (heat sink fins in vertical direction).**
5. Note that condensation may occur. Standing water on the heat sink should be avoided and drip tray may be required.
6. The TE assembly must be protected from external force or violence.
7. The power line to the assembly needs to be protected by a fuse. The fuse rating should be of at least the nominal current of the assembly. It must withstand 150% of rated current for at least 60 seconds.
This is valid at $T_a=35^\circ\text{C}$. Fuse ratings for other ambient temperatures ($x^\circ\text{C}$) can be calculated with the formula $I[x^\circ\text{C}]=I[35^\circ\text{C}]/(1+0.005*(x-35))$.
This is valid when regulating with an ON/OFF regulation. At rapid temperature cycling where this is applicable, there can be need for even higher fuse ratings.
8. Max ripple on supplied power =5%.
9. Switching power to TEM:s at frequencies between 0.01 Hz to 5 kHz will render premature failure of modules and must be avoided.

Service:

Fan impellers and heat sinks must be cleaned on regular intervals to reduce risk for overheating and reduction of cooling function. The interval may vary depending on environment.

$\phi 6$ (6x)
(Holes used to mount the unit)



General tolerances: SS-ISO 2768-1 v
First angle projection: Dimension units: Metric: [mm]

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