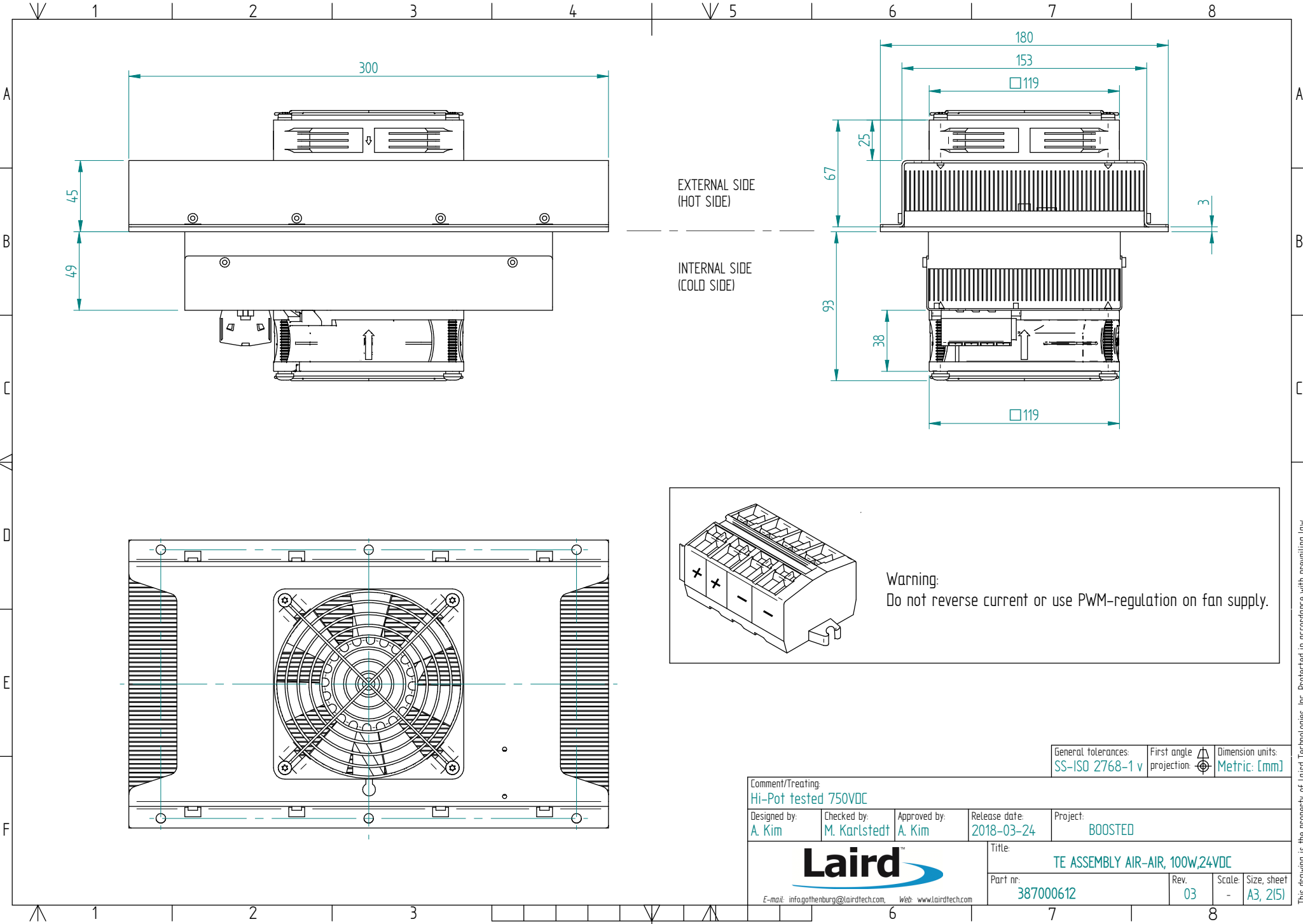


Description:		Code:	Specification: (Ta=35°C, dT=0°C)
Heat transfer, cold side:	A	Air	
Heat transfer, warm side:	A	Air	
Cascade:	-	No	
Cooling power: [W]		100	166 W (Tolerance: ±10%)
TEA Voltage, nominal: [VDC]		24	24 VDC
TEM Voltage: [VDC]		Nominal: 24 VDC (Max: 30 VDC)	
TBM Current: [A]		Nominal: 6.9 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		Release date: 2018-03-24		Project: BOOSTED	
Designed by: A. Kim	Checked by: M. Karlstedt	Approved by: A. Kim			
<p>E-mail: info@gothenburg.lairdtech.com Web: www.lairdtech.com</p>		Title: TE ASSEMBLY AIR-AIR, 100W, 24VDC			
		Part nr: 387000612	Rev. 03	Scale: -	Size, sheet A3, 2/5

This drawing is the property of Laird Technologies, Inc. Protected in accordance with prevailing law.

Installation and Service manual

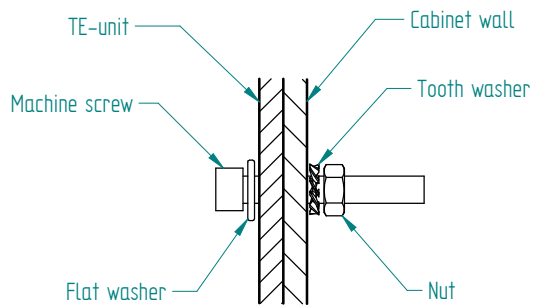
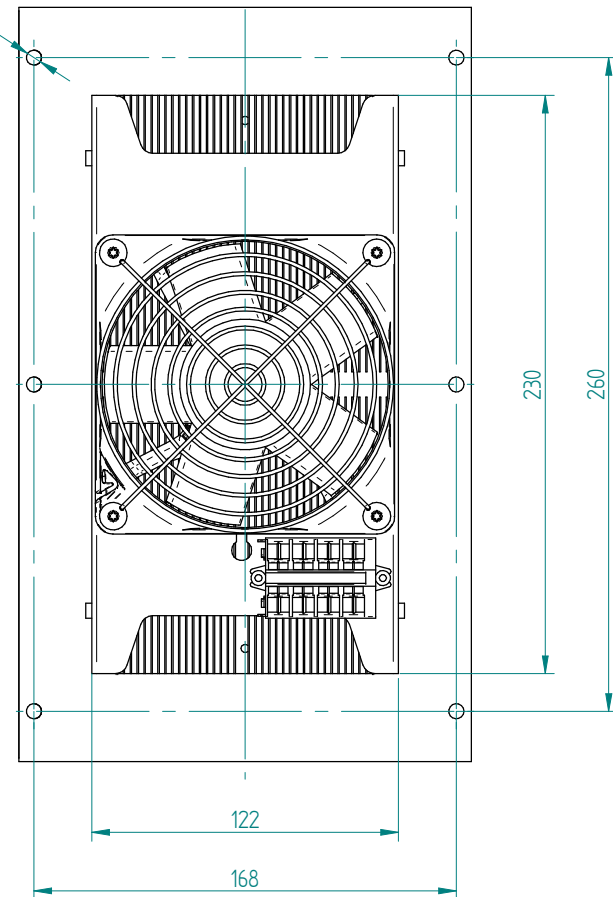
Installation:

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]

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
 E-mail: info.gothenburg@lairdtech.com Web: www.lairdtech.com		Title: TE ASSEMBLY AIR-AIR, 100W,24VDC		
		Part nr: 387000612	Rev. 03	Scale: Size, sheet - A3, 3/5