

Description:		Code:	Specification: (Ta=35°C, dT=0°C)
Heat transfer, cold side:	0	Direct	
Heat transfer, warm side:	A	Air	
Cascade:	-		
Cooling power: [W]	100	193 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:	0	None	
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: 2018-04-04	Project: BOOSTED
 E-mail: info@gothenburg.lairdtech.com Web: www.lairdtech.com		Title: TE ASSEMBY, DIREC-AIR, 100W,24VDC	Part nr: 387000624	Rev: 03
		Scale: -	Size, sheet: A3, 1(5)	

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1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

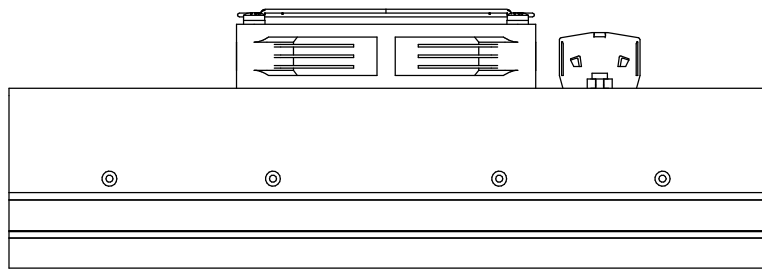
B

C

D

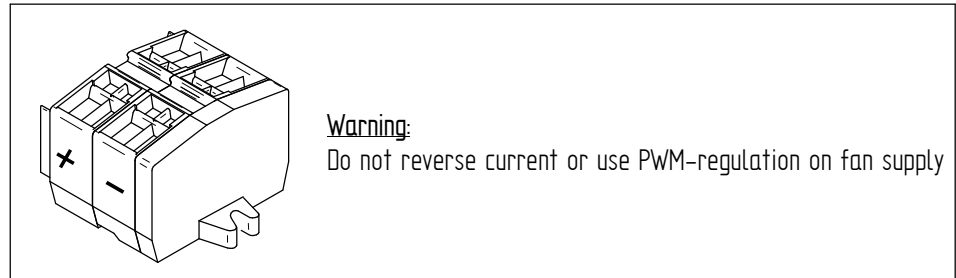
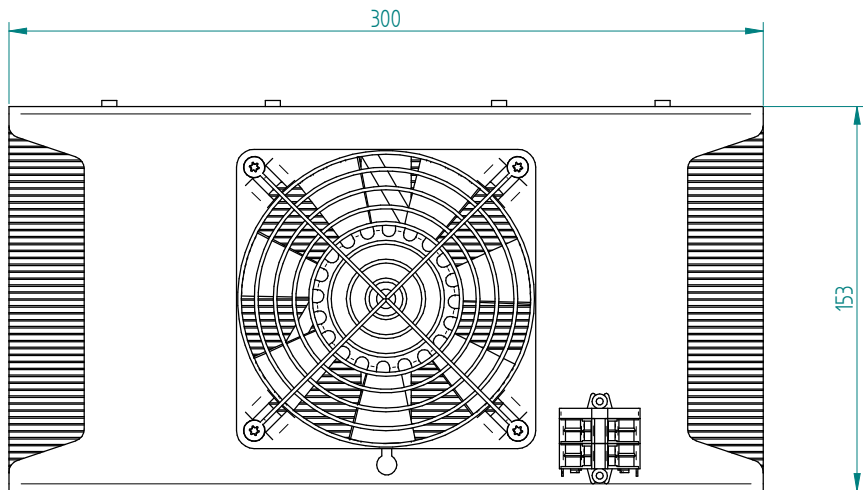
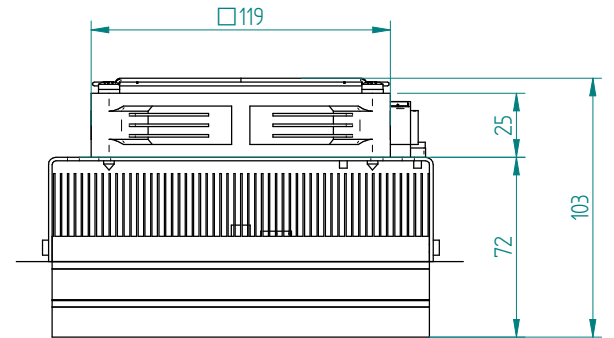
E

F



EXTERNAL SIDE
(HOT SIDE)

INTERNAL SIDE
(COLD SIDE)



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

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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 ASSEMBY, DIREC-AIR, 100W,24VDC		Rev. 03	Scale: Size, sheet - A3, 2/5
		Part nr: 387000624			

1 2 3 4 5 6 7 8

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Installation and Service manual

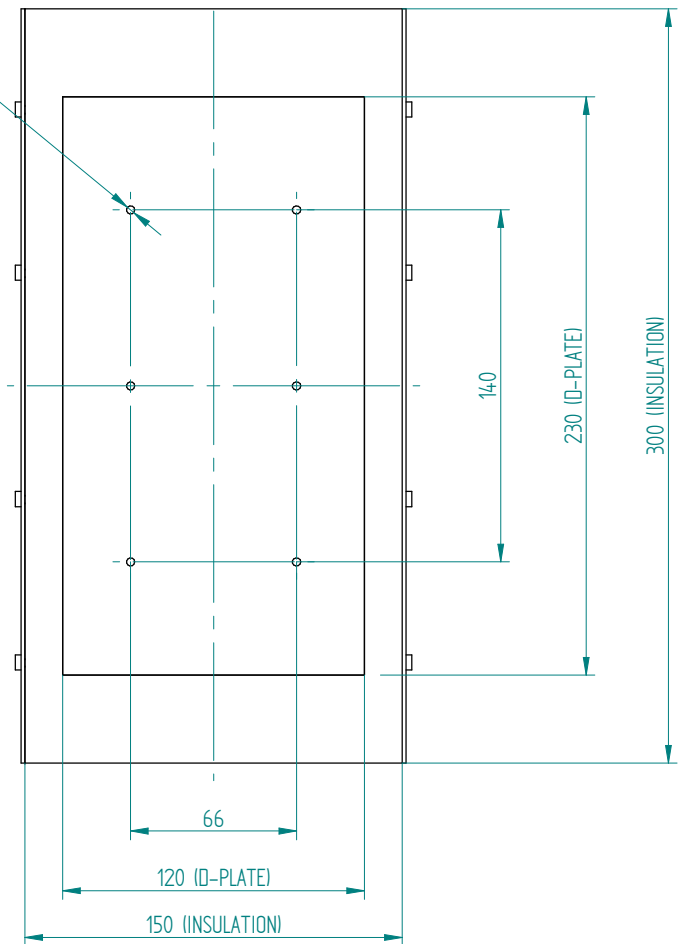
Installation:

1. The TE assembly must be protected from external force or violence.
2. 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.
3. Cooled parts needs to be isolated from air humidity to minimize risk for condensation and thermally insulated for best performance.
4. Max ripple on supplied power =5%.
5. 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.

M4 ∇ 8 (6x)
Max screw insertion depth 8mm
(MOUNTING HOLES)



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		Part nr: 387000624	Rev. 03	Scale: Size, sheet - A3, 3/5