



LDI Series Advanced LED Driver

30-40W Long and Slim Case



Product



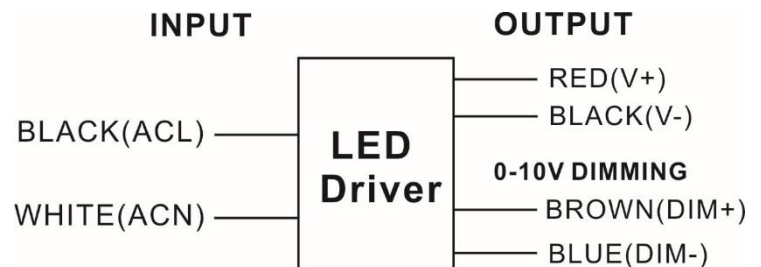
Features

- Universal AC input: 90~305VAC, 50/60Hz
- Constant current with Two-Stage design
- 0-10V dimming available
- 5 years warranty

Dimensions

	In.	mm
Case Length	9.45	240
Case Width	1.1	28
Case Height	1.18	30
Mounting Width	0.59	15
Mounting Length	9.84/11.42	250/290
Overall Length	11.81	300

Wire Diagram



Product Data

Input and output use lead-wires. Lead-wires are 18AWG 105C/600V solid copper per UL1452. Lead Length outside enclosure: 270 mm (±30mm) on all wires

Input		Output			Other parameters					
Input Vol.	Input Power (W)	Output Curr. (mA)	Output Vol. (V)	Output Power (W)	Effi. @ Max Load and 70°C Case (%)	PF @ Max Load	THD @ Max Load	Max Case Temp.	Certification	Life Time
120VAC	33-45	600-850	28-48V	30-40	89.0	0.99	8.0	70°C	UL Class P Listed	Over 64000 Hours
230VAC					90.5	0.98	6.0			
277VAC					90.5	0.95	7.0			



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Product Electrical Specifications

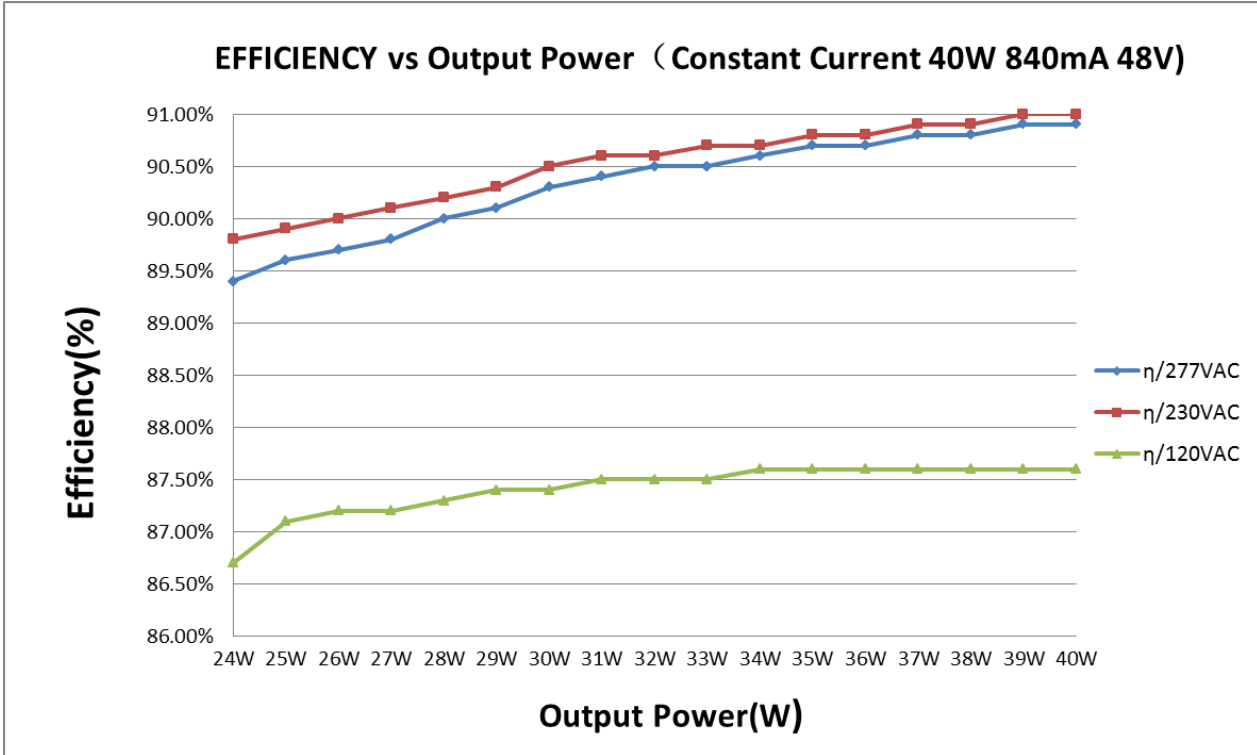
All the specifications are typical and at 25°C Tcase unless specified otherwise

Input Characteristic	
Model No.	LDI-xxA-yyyA/D-zz
Input Voltage	120-277VAC, 50/60Hz
Input Current [mA]	450mA (MAX)
Input Power [W]	33-45W
AC In Rush Current (Max) [A]	18A @120VAC, 16A @277VAC
Output Characteristic	
Output Current [mA]	600-850mA
Output Voltage [V]	28V-48V
Output Power Rating [W]	30-40W
AC-DC Efficiency	91% @230VAC
Power Factor (PF)	0.97 @230VAC
Total Harmonic Distortion (THD) [%]	6.0 @230VAC
Tol. [%]	<±1%
R&N [mV]	<150mV
Other Features/Protections	
Over voltage protection	49V-51V Shut down and latch off o/p voltage, re-power on to recover
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
Over Temp.	Shut down o/p voltage, recovers automatically after temperature goes down
Setup time	<200ms
Ambient Temp Range [°C]	-20°C to 50°C
Max Case Temperature (Tcase)	70°C
Safety Standards	Design refer to UL8750, EN60335-1
EMC Standards	Refer to EN55015, EN61000-3-25 class C, EN61000-4-2,3,4,5,6,8,11, EN61547, FCC Part 15A Non-Consumer
Weight [g]	200g
Size	300*28*30 mm
Product Life	Over 50000 Hours

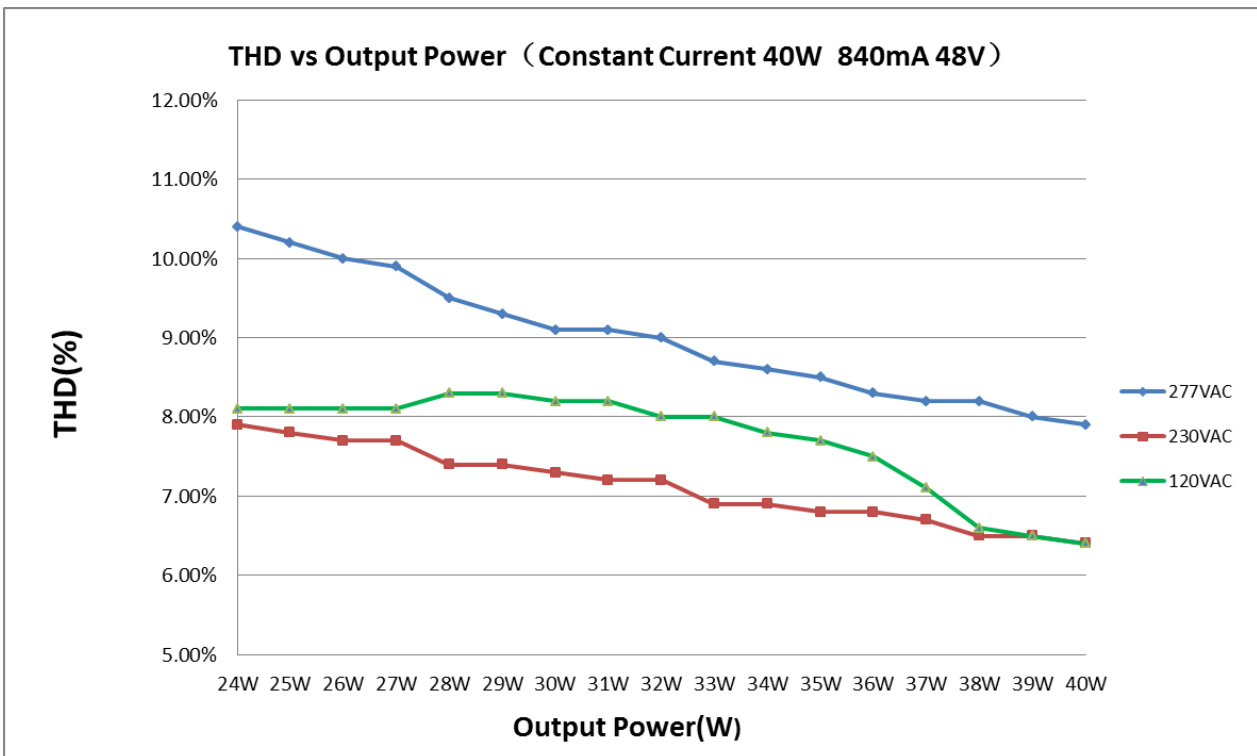
Model Encoding

<u>Model No.</u>	<u>LDI</u>	<u>xx</u>	<u>A</u>	<u>yyy</u>	<u>A/D</u>	<u>zz</u>
Name Rule	Series Name	Rated MAX Wattage	Slim PCB Type	Rated Output Current	Function Options A: Non-dimming D:0-10V Dimming	Rated MAX Output Voltage

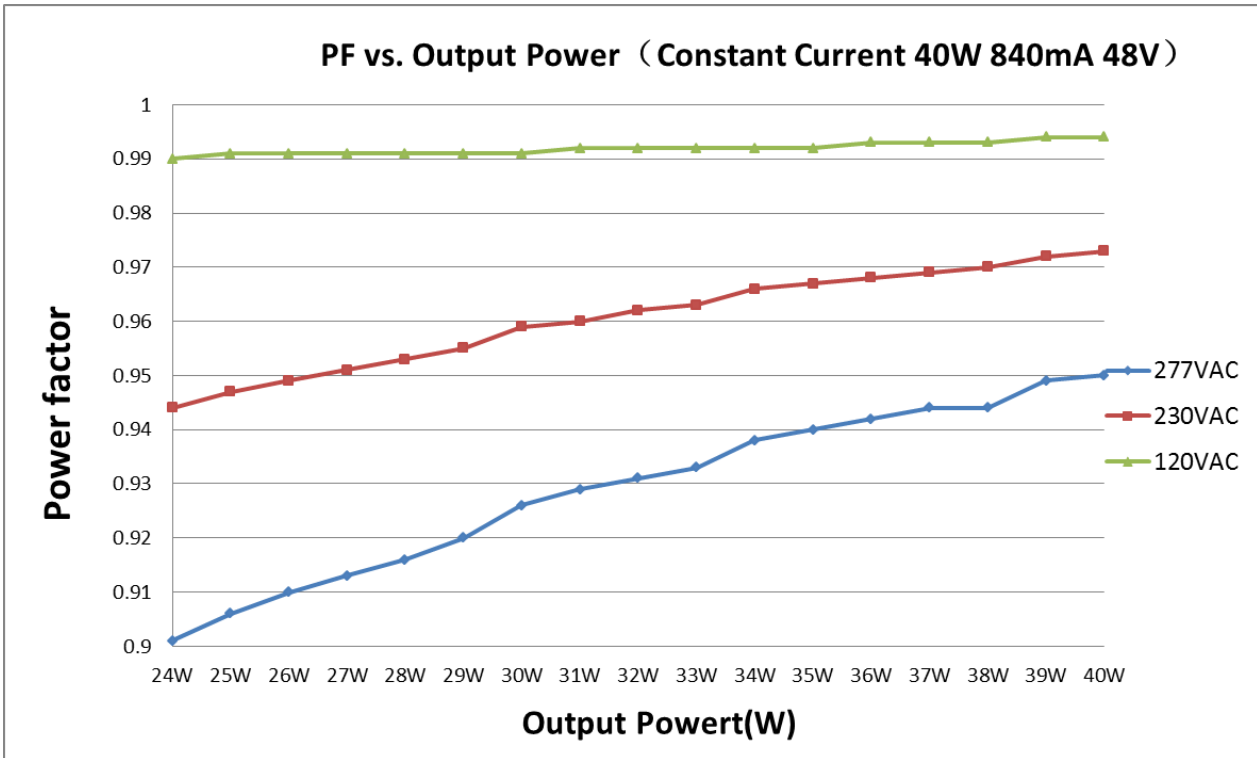
Efficiency vs. Output Power



Total Harmonic Distortion vs. Output Power



Power Factor vs. Output Power

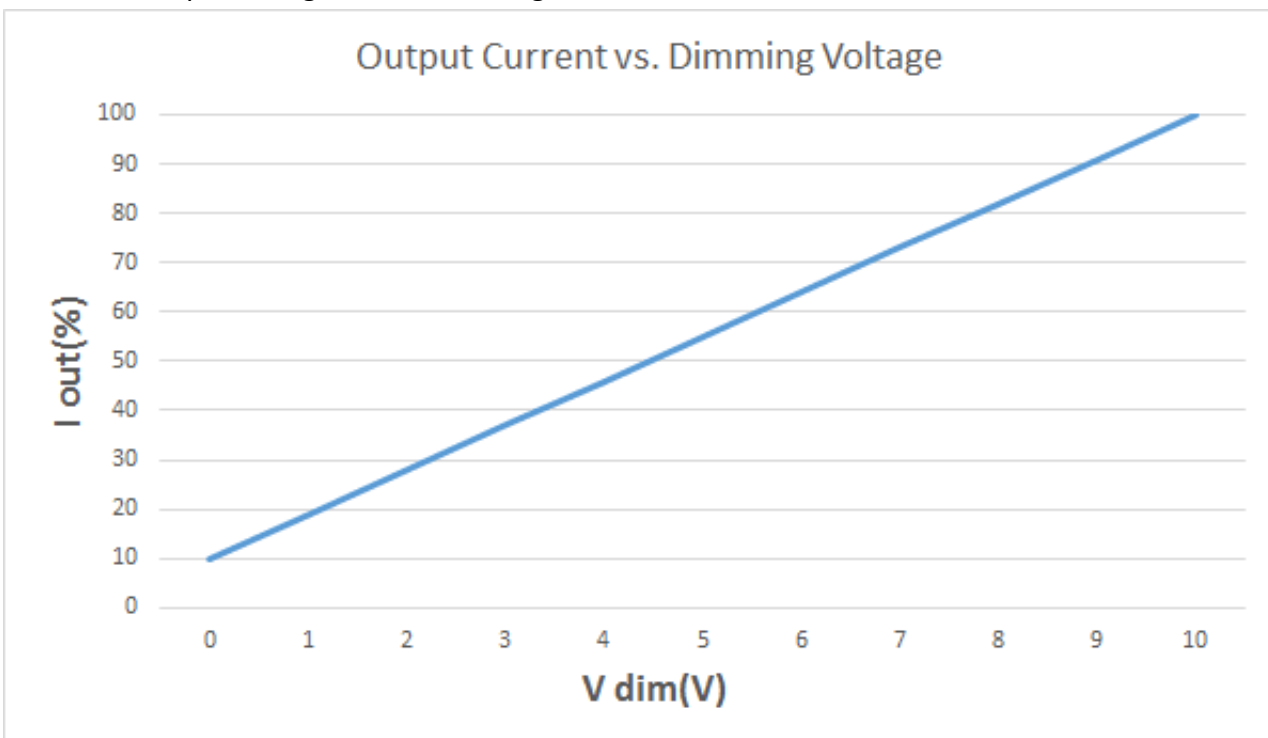


0-10V Dimming Curve

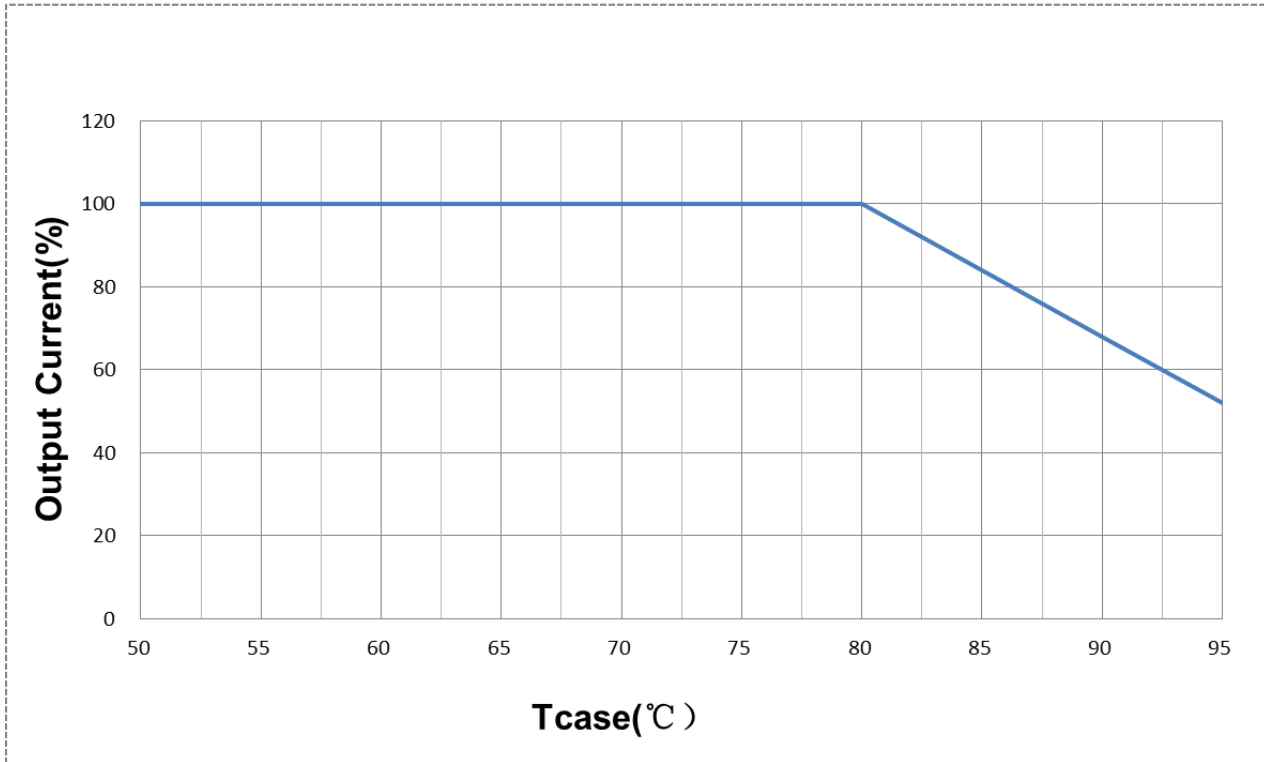
Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

Minimum dim level: 0% of I_{out}

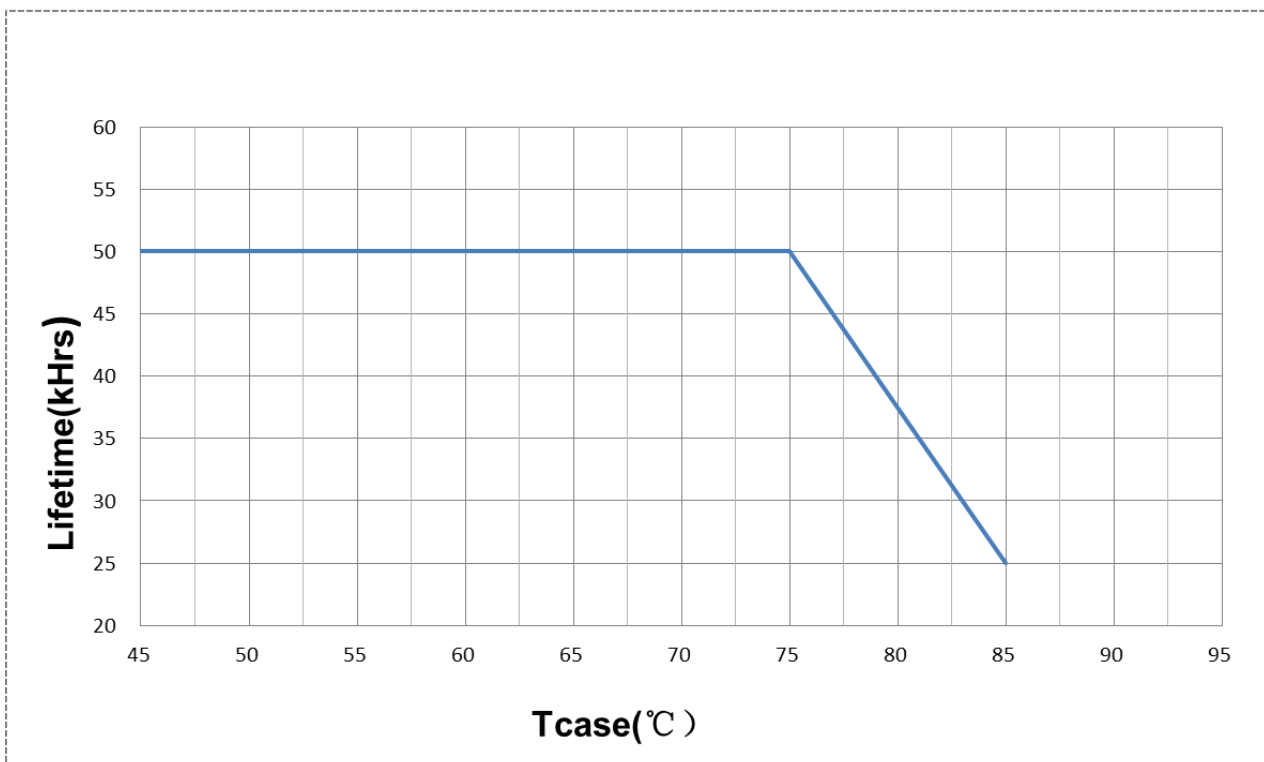
Maximum output voltage on the dimming wires: 12V



Output Current vs. Driver Case Temperature

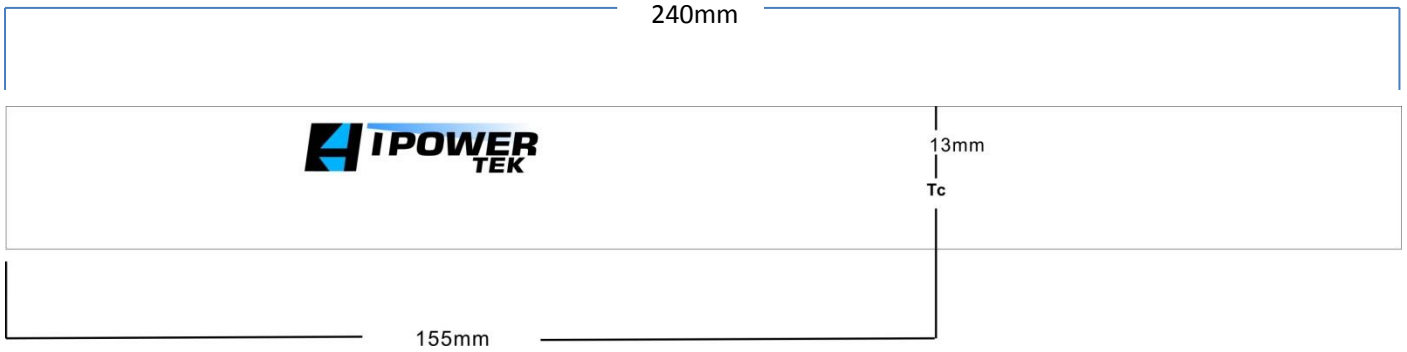


Driver Lifetime vs. Driver Case Temperature

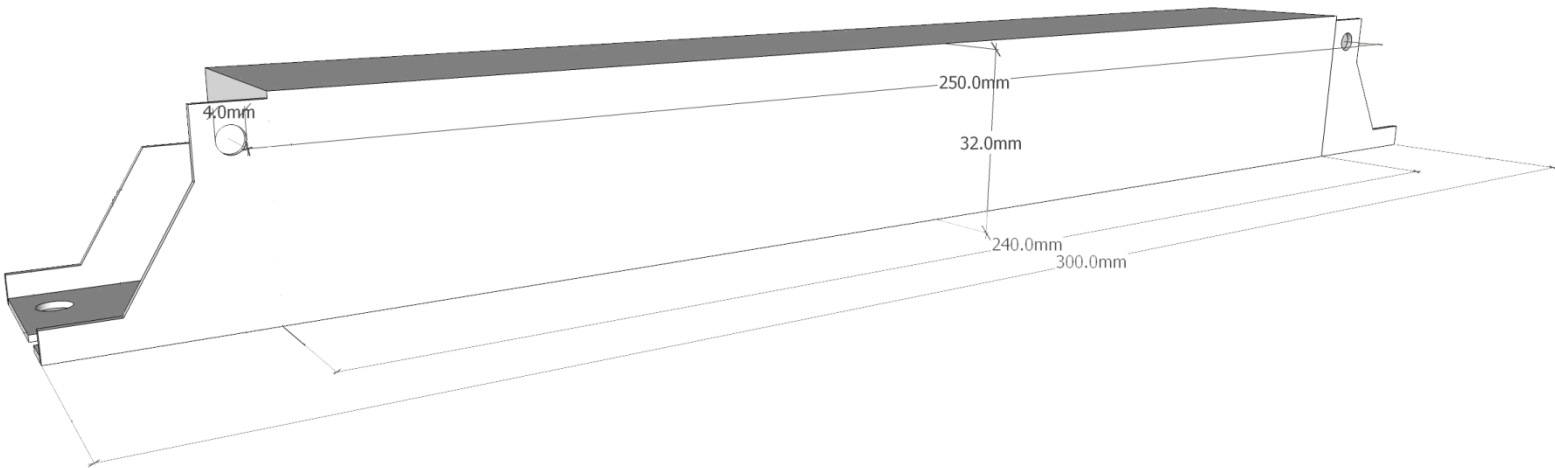
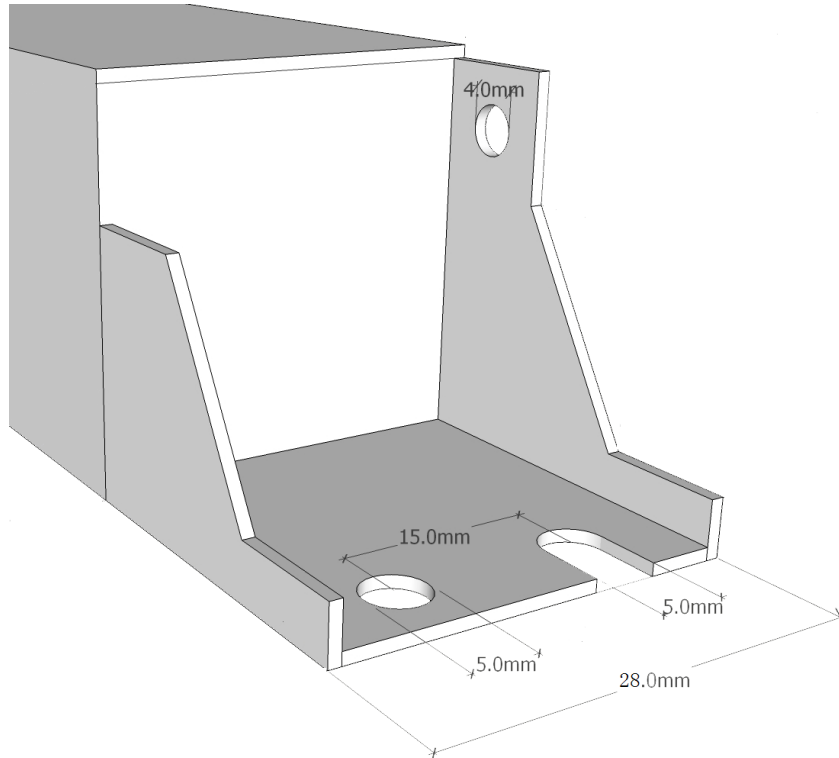




Tc Point



MECHANICAL SPECIFICATION



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