

THCC-1A2UNV105P-20L-D4i



Constant Current LED Driver

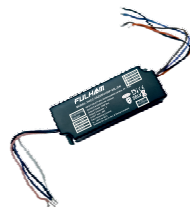
- DALI-2 Constant Current LED Driver
- Multiple current selection through TPSB-100
- Output current : 150-1050mA
- Flicker Free: O/P Ripple current $\leq 10\%$ (LF <200Hz)
- Compact PC Cabinet
- Output Voltage Range 8-54Vdc
- Output Wattage 20W Max.
- Suitable For Dry Locations
- Application
 - LED indoor lighting
 - LED office lighting
 - LED commercial lighting

General Specifications

Input Voltage / Frequency	100~277VAC, 50/60Hz
Input Current	0.120A @ 230Vac with Full Load
Input Power	28 W Max
Input Power Factor	>0.9 @100-277Vac @ 50-100% load
THD	<20% @ 100-277Vac @ 50-100% load
Driver Type	Constant Current
Output Voltage	08-54VDC
Output Current	150-1050mA
Default Output Current	1050mA($\pm 5\%$)
Output Power	20W Max
Efficiency	>84% @ 230Vac with full load (Vout >25V)
Output Type	LED Class 2
Inrush Current	<10A @277Vac
Line Regulation / Load Regulation	Line Regulation $\pm 5\%$, Load Regulation $\pm 5\%$
Flicker Percentage	<5%
Dimming controller Type/Dimming Range	DT8 CCT mode,DT6 Solo Address mode ,0.1%-100%
Startup Time	As per DALI
DALI Bus Power Supply	15Vdc $\pm 30\%$, <56mA
Operating Ambient Temperature Range	-40°C to 40°C
Max. Driver Case Tc Temperature (Per UL)	65°C
Standby Power	<0.5W @ 100-277Vac (D4i ON & Driver connected to DALI Master)
Number of Output Channels	2
Overall Size	4.29" x 1.59" x 1.08"(109mm X 40.48mm X 27.50mm)
DALI Standards	IEC62386-101,102,207,209,250,251,252,253*
D4i Certified	IEC62386-250(Integrated Power Supply)*
IP Rating	IP20, Suitable for Dry and Damp locations
Sound Rating	A
Withstand Voltage	Input to Output: 3750 Vac
EMI	CISPER15,FCC15B,EN61547,EN61000-3-2,EN61000-3-3,EN61000-4-2,EN61000-4-3,EN 61000-4-4,EN 61000-4-5,EN 61000-4-6,EN 61000-4-8,EN61000-4-11,EN61000-4-29
Operating Humidity	Max 85% RH
Input Surge Protection	Input Surge Line-Neutral 4KV
Protections	Output Over Current (OCP) Output Temperature Protection (OTP) (tc >85°C $\pm 10\%$,the driver stop working) Output Over Voltage (OVP)
Hot Swappable	No
Service Life	50,000 hours lifetime @ Tc max
Warranty	5 Years @ Tc 65°C from the date of manufacture

Note: * Certification under process.

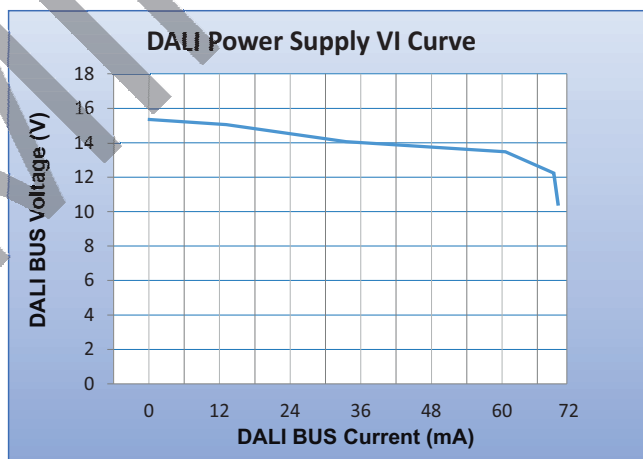
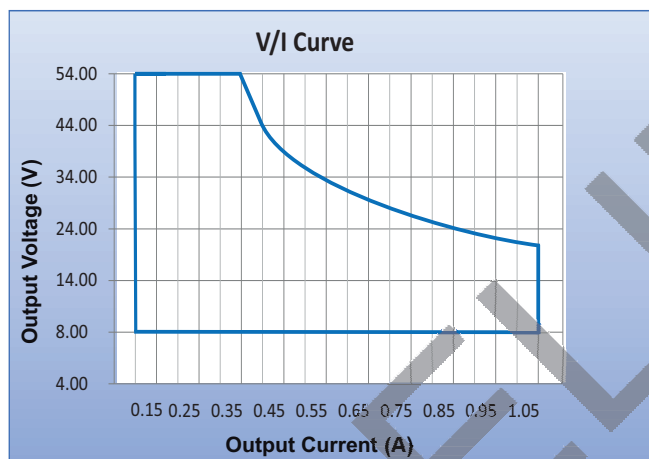
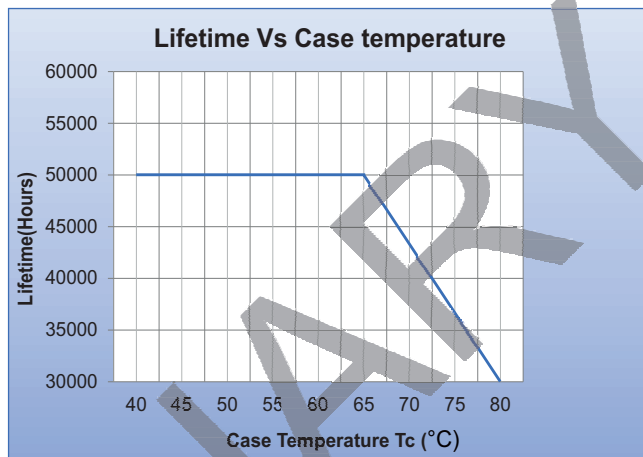
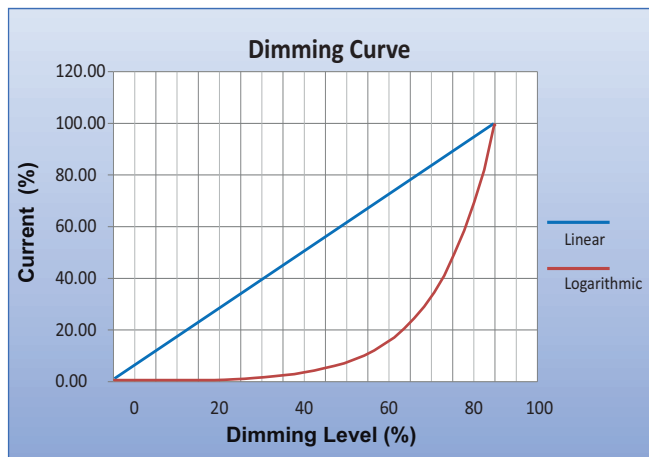
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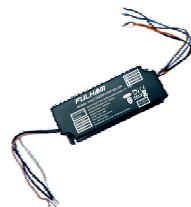


Charts



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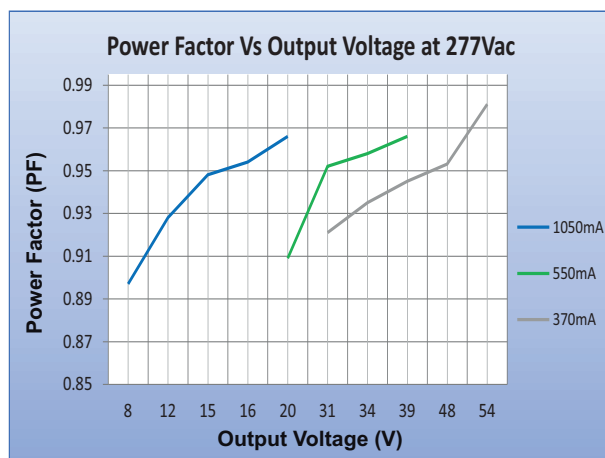
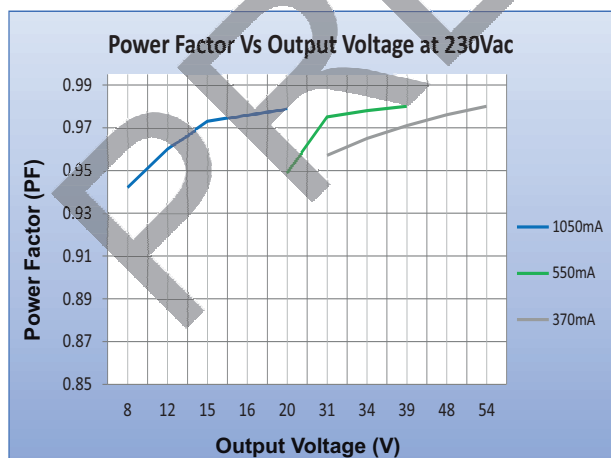
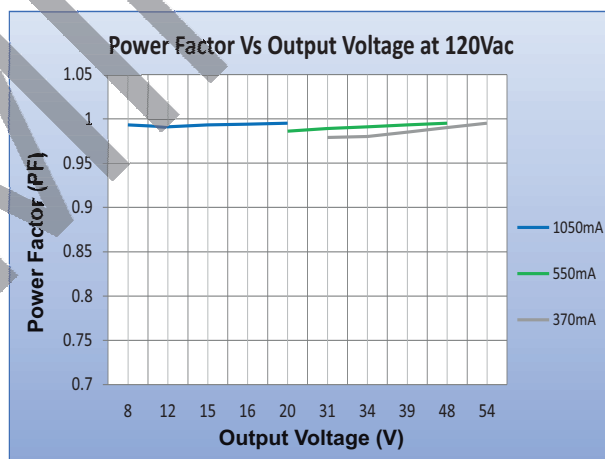
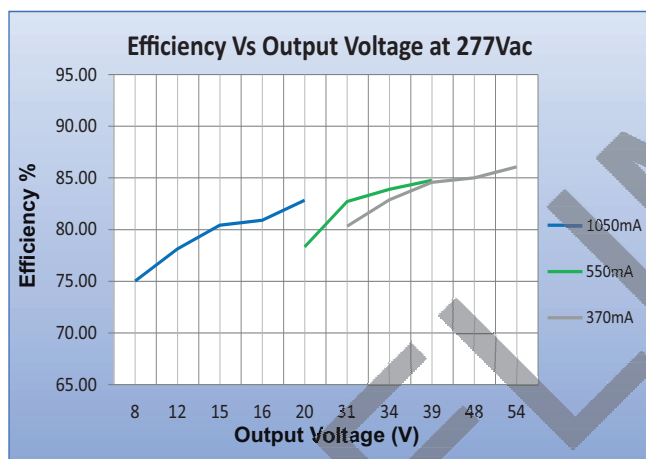
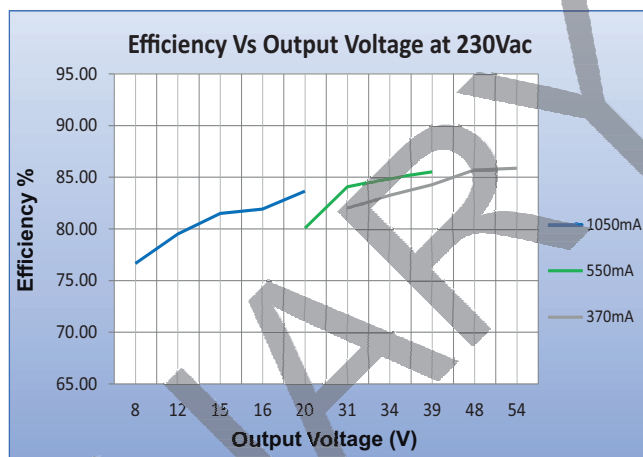
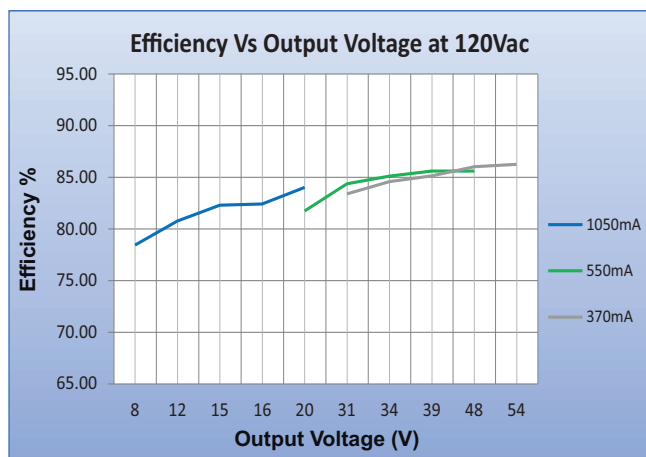
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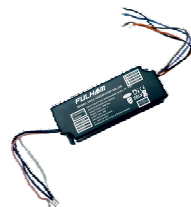


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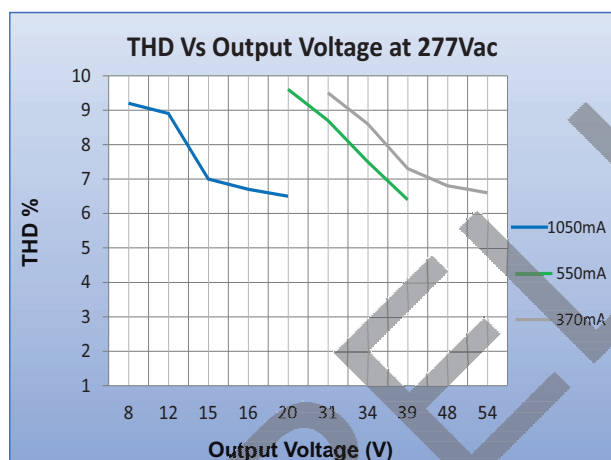
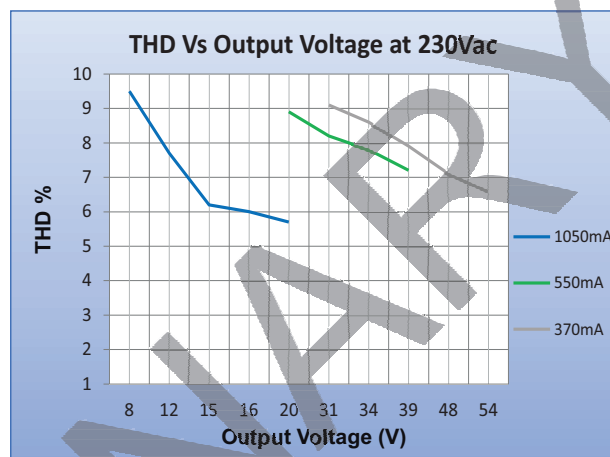
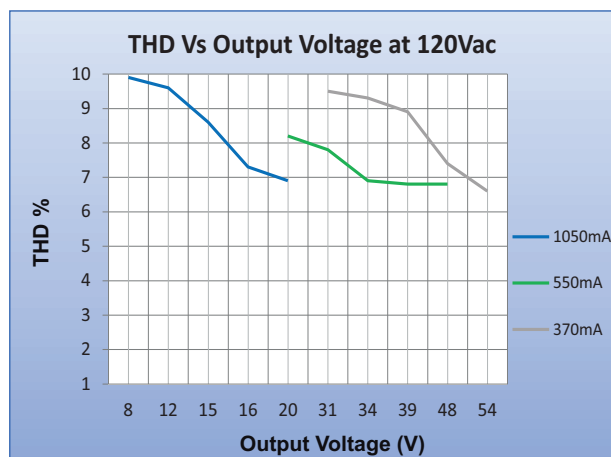
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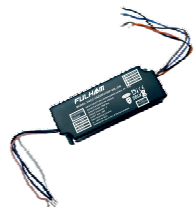


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Programming

TPSB-100 Programming Controller

Please consult the user manual for instructions on using the TPSB-100 SmartSet Programming Controller.



Programming Instructions

1. To program use the Fulham TPSB-100 SmartSet controller; connect the programming forks in to the appropriately labeled programming connections located on the LED driver.
2. Program the driver output current between 150mA - 1050mA. (Note: set current represents total current of two channel).
3. Current programming and more function setting can be done through SmartSet PC Software.

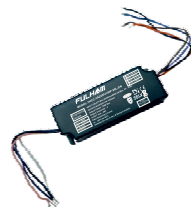


SmartSet Software



TPSB-100 SmartSet
Controller

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Part Number Matrix

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LED Driver	Constant Current	# of Control Channels	Control Type	# of Output Channels	Input Voltage	Output current	Characteristic	Max Output Power	Case Type
TH=ThoroLED	CC = Constant Current	1 = 1 Channel	M = 0-10V dimming	2 = 2 Channel	UNV=120~277V	150=1050mA	P = Programmable	20=20W	L =

Over temperature protection

- The Fulham ThoroLED drivers is protected against thermal overload. If the temperature limit is exceeded, the output current is reduced.

LED load

- Fulham ThoroLED drivers are designed to drive passive LEDs, -COB's and -LED assemblies .Proper function is not guaranteed when (LED)loads with active components are used.

Short-circuit protection

- In case of a short circuit the LED driver switches to protection mode. After the removal of the short-circuit the LED driver will recover automatically.

No-load Operation

- This product isn't recommended working under no load condition for a long time for energy saving purpose.
- It's not recommended to use this product for a long time without load.

Hot Swapping

- This driver does not support hot swapping of the LEDs.

Remote Mounting

- Up to 50ft with 20AWG. Contact Fulham for higher remote distance.

Service life/Lifetime

- Failure Rate Info based upon MTBF modeling: 90% survivals at end of life @ <=Tc lifetime rating.

Warranty

- Reference Fulham's limited Warranty: <https://cdn.fulham.com/PDFs/Limited-Warranty.pdf>

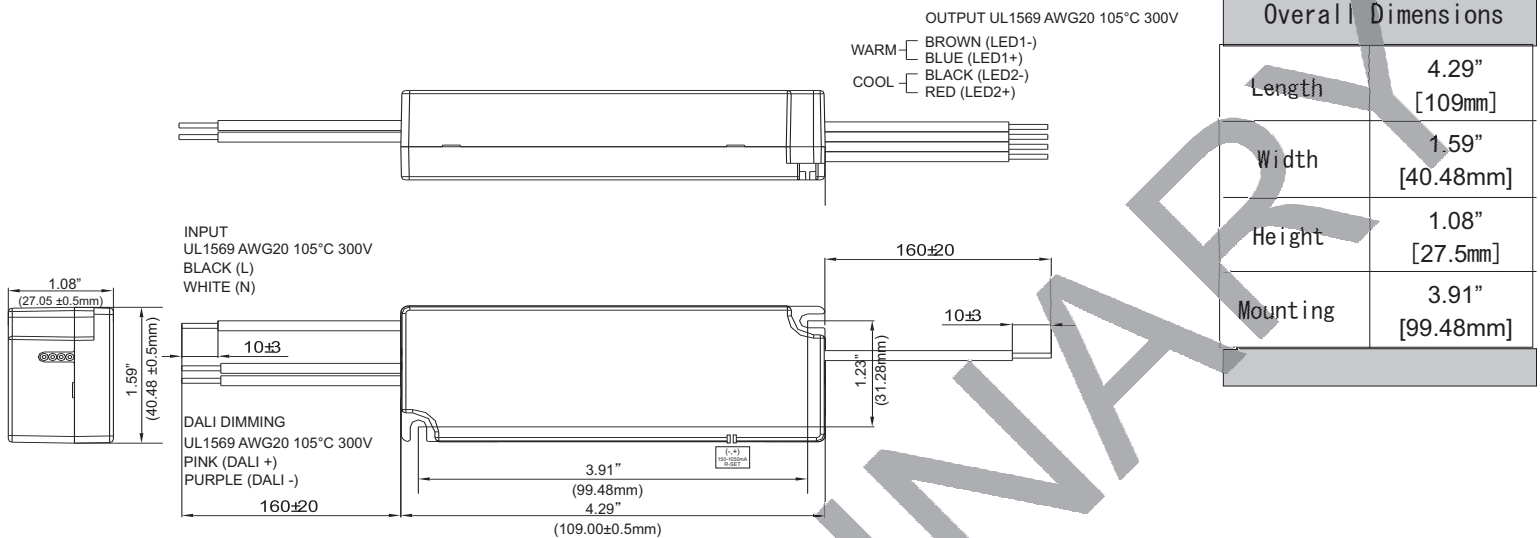
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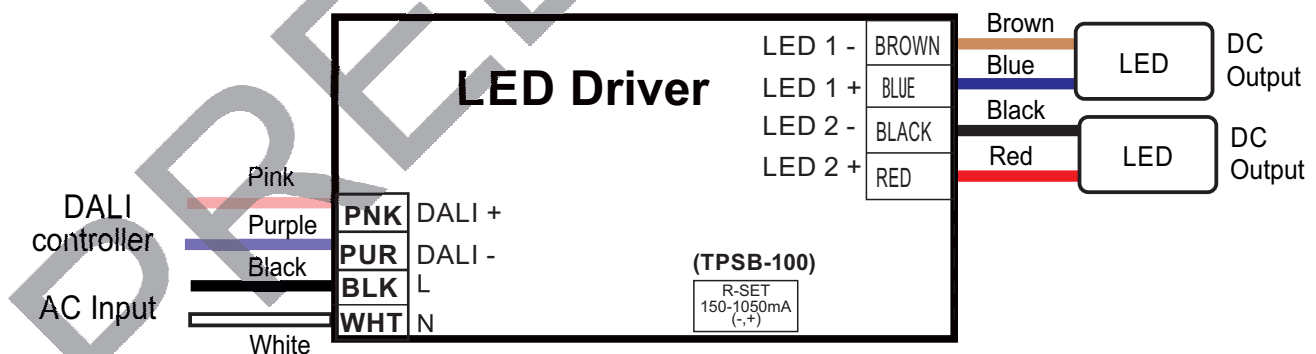
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Mechanical Drawing



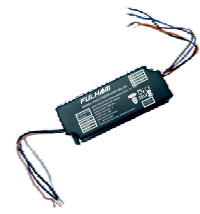
Wiring Diagram



Servicing should only be performed by qualified service personnel.

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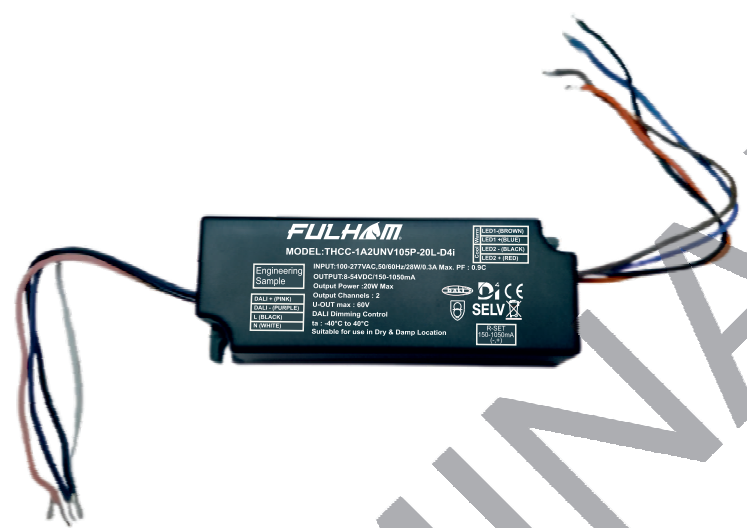
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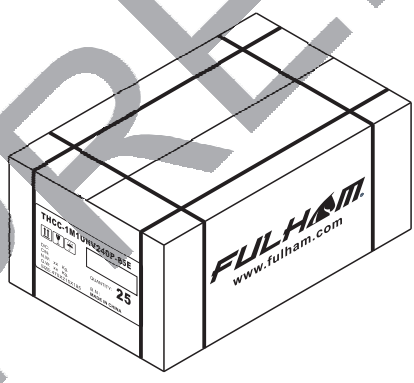


Product Image:



Packaging

Master Carton



OUTER DIMENSION		
L	W	H
TBD	TBD	TBD
Net Weight	Gross Weight	QUANTITY
TBD	TBD	TBD

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