## LED Driver CT 0-10V 150W 24V - LM-150-24-G2A2

BALL DECKUMAN BURNAL BU

## 2833200

Product TypeConstant Voltage DriverLength (mm)352Width (mm)43Height (mm)30Housing ColorWhiteHousing MaterialPlasticMoutingSurface mountedWeight (g)435Electronics20 - 240V ACInput DomainACInput Voltage24V DCOutput Voltage24V DCOutput Current max (A)6250Output Current (mA) max/outpu6200Power Factor at Full Load298 @ 230VACLED Outputs21Efficiency33%Leakage current max. (mA)0.5Standby Power Loss Max. (W)0.5Thold full load)65 @ 0230V ACInput Frequency65 @ 0420Liphting50 = 60HzTursch Current45A @ 230VACLiphting0.100%Control0.100%Output Signal0.100%Output Signal0.100%Control0.100%Dimming Range0.100%Number of Channels1Protection1Furierental1Storage Temperature40 - +80 °COperating Temperature20 - +50 °CStorage Te	General	
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Input Domain         AC           Input Voltage         220 - 240V AC           Input Current max (A)         0.75A @ 230V AC           Output Voltage         24V DC           Output Current (mA) max/output         6250           Output Current Max. (A)         625           Output Current Max. (A)         6250           Output Power Range (W)         0-150           Power Factor at Full Load         +0.98 @ 230VAC           LED Outputs         2           Anti Surge         L-N: 2kV           Efficiency         93%           Leakage current max. (mA)         0.5           Standby Power Loss Max. (W)         0.5           Input Frequency         50 ~ 60Hz           Output Signal         PumerCv           Control         0-10V           Output Signal         Quercv           Number of Channels         2           Protection         2           Protection         2           Storage Temperature         -40 ~ +80 °C           Operating Temperature         -20 ~ +50 °C	Weight (g)	435
Input Voltage         220 - 240V AC           Input Current max (A)         0.75A @ 230V AC           Output Voltage         24V DC           Output Current (mA) max/output         6250           Output Current Max. (A)         6250           Output Power Range (W)         0.150           Power Factor at Full Load         +0.98 @ 230VAC           LED Outputs         2           Anti Surge         L-N: 2kV           Efficiency         93%           Leakage current max. (mA)         0.5           Standby Power Loss Max. (W)         0.5           Input Frequency         50 - 60Hz           Inrush Current         626 - 230VAC           Input Frequency         50 - 60Hz           Inrush Current         63 @ 230V AC           Input Frequency         50 - 60Hz           Inrush Current         60 - 60Hz           Inrush Current         50 - 60Hz           Input Signal         0 - 10V           Output Signal         0-10V           Output Signal         0-100%           Number of Channels         2           Protection         2           Protection Class         II           Storage Temperature         -40 - +80 °C	Electronics	
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Output Current Max. (A)         6.25           Output Power Range (W)         0-150           Power Factor at Full Load         +0.98 @ 230VAC           LED Outputs         2           Anti Surge         L-N: 2kV           Efficiency         93%           Leakage current max. (mA)         0.5           Standby Power Loss Max. (W)         0.5           THD (at full load)         6% @ 230V AC           Input Frequency         50 ~ 60Hz           Inrush Current         45A @ 230VAC           Color Range         Tunable White           Color Range         0.10V           Output Signal         0.400%           Qutput Signal         0.100%           Number of Channels         2           Protection Class         II           Environmental         50 ~ 40 ~ 480 °C           Operating Temperature         -20 ~ +50 °C           Operating Temperature         -20 ~ - 450 °C           Operating Temperature         -20 ~ - 150 °C	Output Voltage	24V DC
Output Power Range (W)         0-150           Power Factor at Full Load         +0.98 @ 230VAC           LED Outputs         2           Anti Surge         L-N: 2kV           Efficiency         93%           Leakage current max. (mA)         0.5           Standby Power Loss Max. (W)         0.5           THD (at full load)         6% @ 230V AC           Input Frequency         50 ~ 60Hz           Inrush Current         45A @ 230VAC           Lighting         Color Range           Color Range         Tunable White           Control         0-10V           Dumming Range         0-100%           Number of Channels         2           Protection Class         II           Environmental         Storage Temperature           -40 ~ +80 °C         Operating Temperature           -20 ~ +50 °C         Storage Temperature	Output Current (mA) max/output	6250
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Ingress ProtectionIP2OSafety StandardsNEN-EN-IEC 61347-1,	Storage Temperature	-40 ~ +80 °C
Safety Standards NEN-EN-IEC 61347-1,	Operating Temperature	-20 ~ +50 °C
	Ingress Protection	IP20
	Safety Standards	

### Disclaimer

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ROHS IP20 5 year warranty

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# LTECH

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### LED Intelligent CT Driver (constant voltage)

- Dimming interface: 0-10V(1-10V/10V PWM/RX), Push DIM/CCT.
- Dimming interface with photoelectric isolation, in line with the latest safety standards, more safe and reliable.
- 0-10V DIM and color temperature adjusting driver, 2 independently SELV constant voltage output channels.
- Constant power design, adjust different color temperature to keep the same brightness.
- Dimming range from 0-100%, LED start at 0.1% possible.
- With soft-on and fade in function, visual more comfortable.
- Color temperature adjusting range: 2700-6500K.
- Automatic recognition of 0-10V, 1-10V input signal.
  0~100% flicker-free, High frequency exemption level.
- 0~100 % ticket-free, fright requercy exemption tevel.
- High efficient driver: efficiency 93%, PF>0.98, THD<6%.
- $\bullet\,$  In line with the EU energy efficiency ERP directive, standby power consumption < 0.5W.
- Innovative thermal management technology, intelligent power life protection.
   Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- Fully-protected plastic housing with design of dismountable end cover. \_\_\_\_\_
- Suitable for indoor I/II/III type lamps application.
- Up to 50,000-hour life time.
- 5 years warranty (Rubycon capacitor).

5 in 1 DIM & CT adjustment 0-10V 1-10V 10V PWM RX Push Ultra-low consumption of 0-10V ports: < 0.05mA. Dim / CT SELV Class 2 I CB € C CE RoHS 25 **()**  $\square$ Jul 4 A 0-10V PWM (4) V PUSH Over v Diaital ant P

**Flicker-free** IEEE 1789 Achieve the exemption level.

Dimmable: 0.1%-100%

## Specification

Model		LM-150-24-G2A2	LM-150-12-G2A2	
OUTPUT	Output Voltage	24Vdc	12Vdc	
	Output Voltage Range	$24Vdc \pm 0.5Vdc$	12Vdc ±0.5Vdc	
	Output Current	Max. 6.25A	Max. 12.5A	
	Output Power	Max. 150W		
	Output Power Range	0~150W		
	Strobe Level	High frequency exemption level.		
	PWM Frequency	3600Hz		
	Dimming Range	0~100%, dimming depth: Max. 0.1%		
	Overload Power Limitation	≥102%		
	Ripple & Noise	Switch ripple≤200mV, noise≤500mV	Switch ripple<200mV, noise<800mV	
	Dimming Interface	0-10V(1-10V/10V PWM/RX) DIM/CCT, Push DIM/CCT		
	Interface consumption	<0.05mA @ 0-10V		
	Input Voltage	220-240Vac 200-280Vdc		
	Frequency	50/60Hz		
	Input Current	Max. 0.75A/230Vac		
INPUT	Power Factor	PF>0.98/230Vac, at full load		
	THD	<6% at 230Vac, at full load		
	Efficiency (typ.)	93%	92%	
	Standby Power Loss	<0.5W		
	Inrush Current(typ.)	Cold start 45A at 230Vac		
	Control surge capability	L-N:2KV		
	Leakage Current	Max. 0.5mA		
	Working Temperature	ta: -20°C ~ 50°C tc: 85°C		
	Working Humidity	20 ~ 95%RH, non-condensing		
ENVIRONMENT	Storage Temp., Humidity	-40°C ~ 80°C, 10~95%RH		
	Temp. Coefficient	±0.03%/°C (0-50°C)		
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes		
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature≥110°C, auto recovers		
PROTECTION	Over Voltage Protection	Shut down the output when non-load voltage≥28V, re-power on to recover after fault condition is removed	Shut down the output when non-load voltage>16V, re-power on to recover after fault condition is removed	
	Over Load Protection	Shut down the output when current load≥102%, auto recovers		
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, auto recovers		
SAFETY & EMC	Withstand Voltage	I/P-0/P: 3750Vac		
	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH		
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13		
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547		
	Strobe Test Standard	IEEE 1789		
OTHERS	Dimensions	352×43×30mm(L×W×H)		
	Packing	355×44×33mm(L×W×H)		
	Weight(G.W.)	430g±10g		

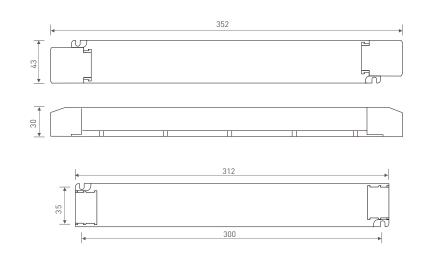
\* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), then we can prepare the special programs.





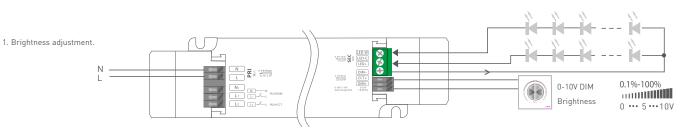
### Dimensions

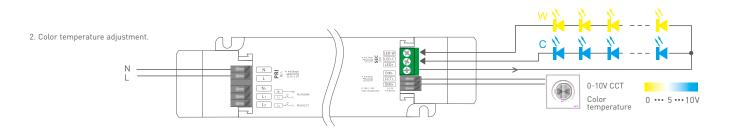
Unit: mm

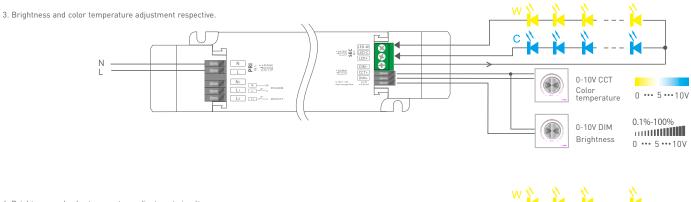


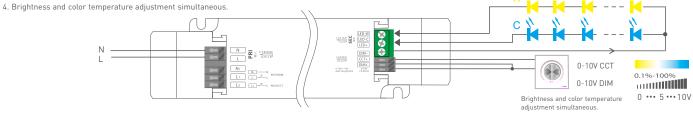
### Wiring Diagram

0-10V Connection





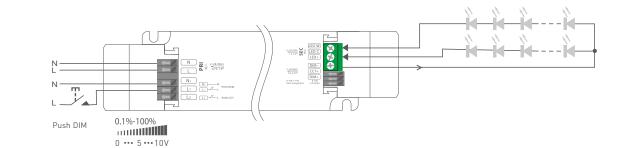




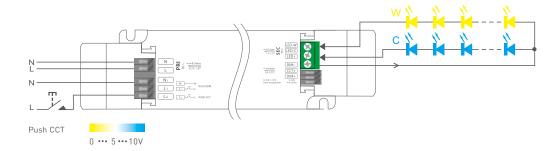


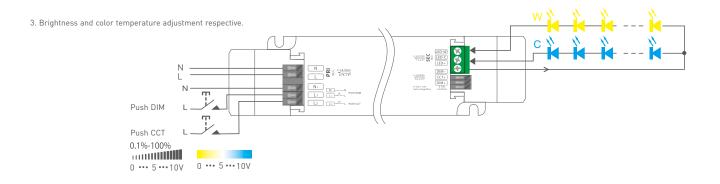
#### Push DIM/CCT Connection

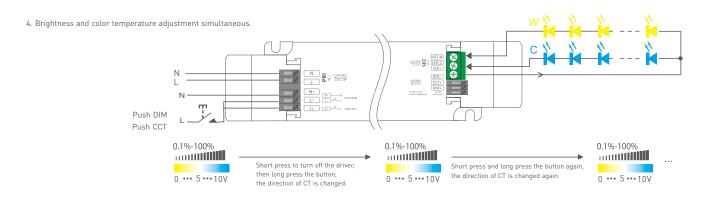
1. Brightness adjustment.



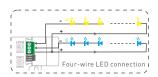
#### 2. Color temperature adjustment.







\* Dimming interface priority: First 0-10V, next Push DIM/CCT.





# LTECH

### LM-150-24-G2A2 LM-150-12-G2A2

### Push DIM/CCT



- DIM • On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.
- CCT

  Color temperature adjustment: Long press.
- With every other long press, color temperature go to the opposite direction.
- Color temperature memory: Color temperature will be the same as previously adjusted when turning on again.

\* Applicable to brightness adjustment, color temperature adjustment and brightness/CT adjustment respective of Push DIM/CCT connection.



### DIM/CCT

- On/off control: Short press
- Stepless dimming and color adjustment: long press.
- With every other long press, color temperature go to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.

Reset switch

\* Applicable to brightness and CT adjustment simultaneous of Push DIM/CCT connection.

### Application of Protective Cover

Wire pressing board:





Push the wire pressing board to fix the wire.

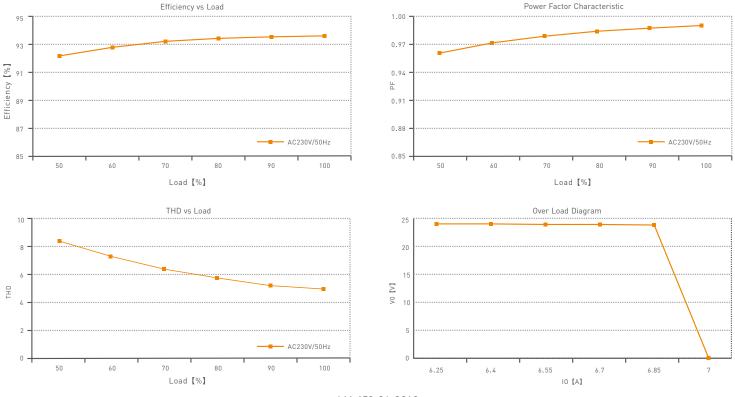
Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

Uninstall protective cover:



Break off the bottom left and right to remove the protective cover.

### **Relationship Diagrams**

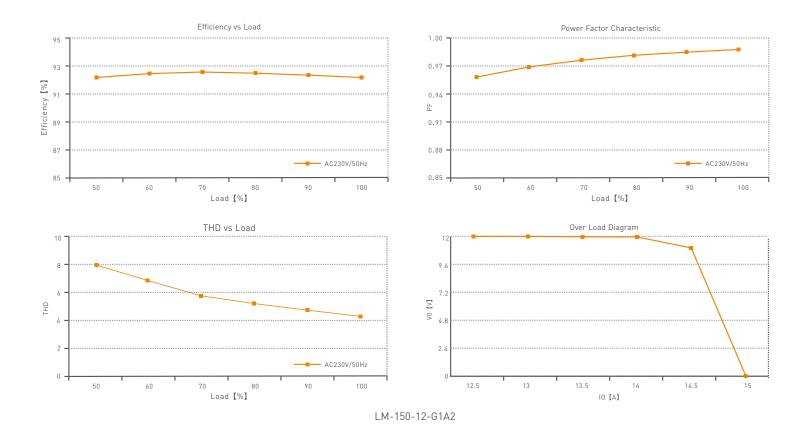


LM-150-24-G2A2

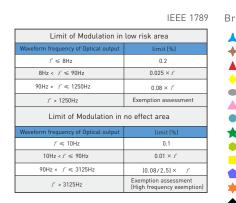


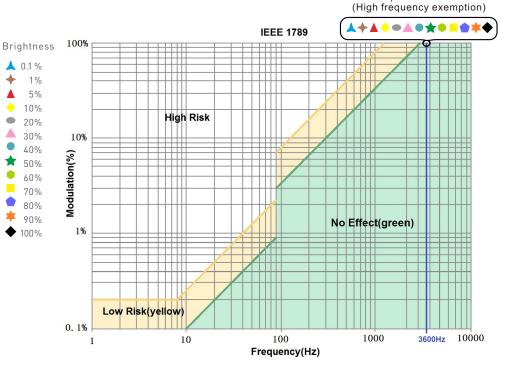
LM-150-24-G2A2 LM-150-12-G2A2





### Flicker Test Form





Exemption assessment



LM-150-24-G2A2 LM-150-12-G2A2



### Attentions

- Products shall be installed by qualified professionals.
- LTECH products are non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.
- \* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

### Warranty Agreement

- Warranty periods from the date of delivery 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.
- 1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.

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2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.