

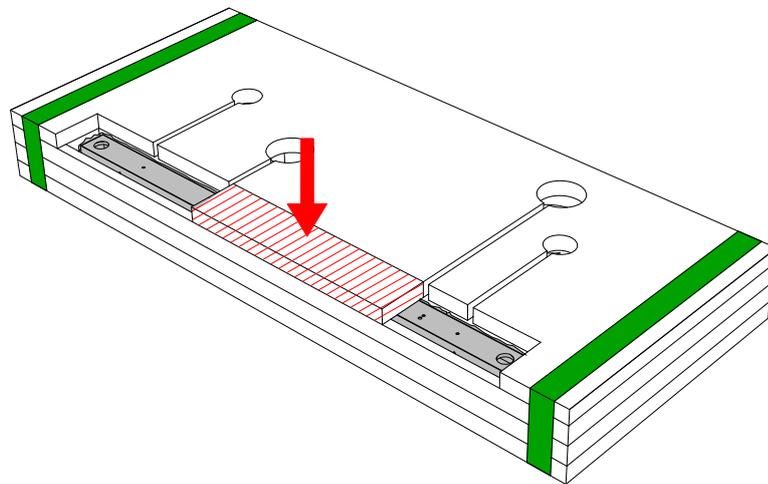
ALL OPERATIONS MUST BE CARRIED OUT BY QUALIFIED PERSON

- ① Remove the packaging from the carton.  
**Do not remove all the polystyrene but only the strip indicated by the arrow.**  
**WARNING! DO NOT REMOVE GREEN ADHESIVE TAPE UNTIL WILL NOT BE INDICATED**

Sfilare l'imballo dal cartone.

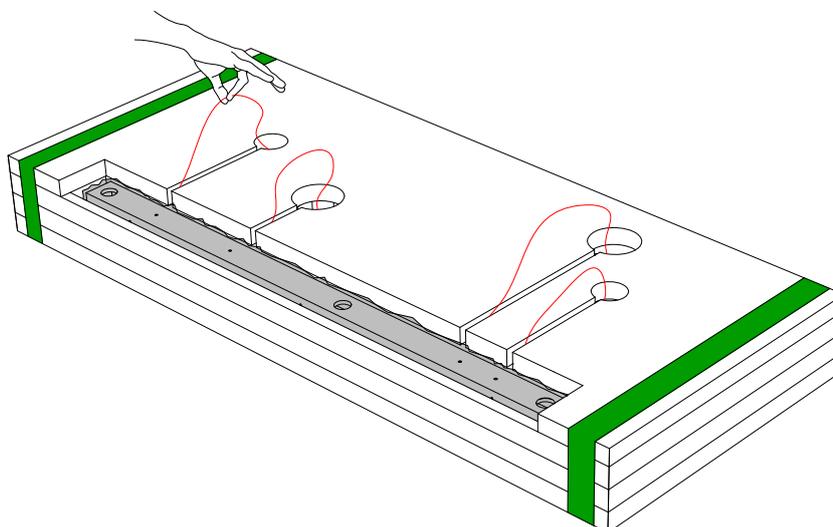
**Non rimuovere tutto il polistirolo ma soltanto la striscia indicata dalla freccia.**

**ATTENZIONE! NON RIMUOVERE IL NASTRO ADESIVO VERDE FINCHÈ NON VERRÁ INDICATO**



- ② Gently lift the upper layer of polystyrene being careful not to break it and pull out the steel cables **without bending them and remove the laces.**

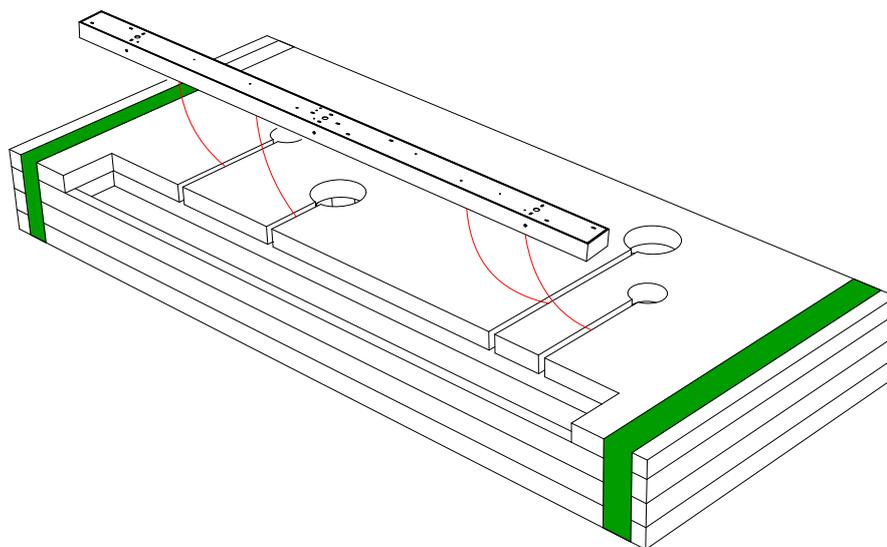
Sollevare delicatamente lo strato superiore di polistirolo facendo attenzione a non romperlo e sfilare i cavi di acciaio **senza piegarli e togliere i laccetti.**



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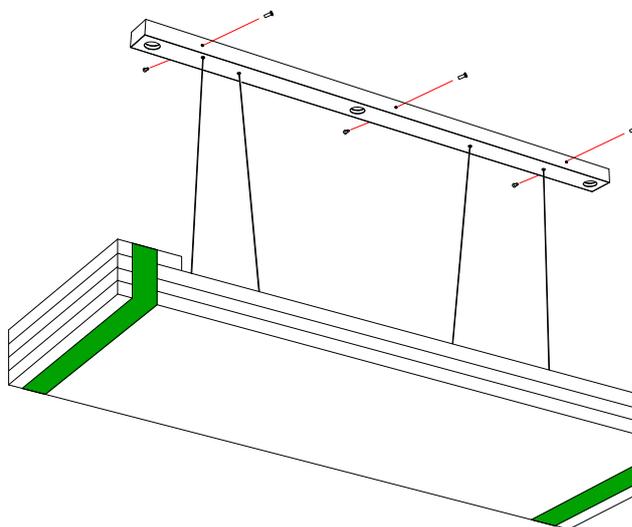
- ③ Gently lift the canopy and remove it from the bag that wraps it, taking care not to bend the steel cables.

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Sollevare delicatamente il rosone e rimuoverlo dal sacchetto che lo avvolge facendo attenzione a non piegare i cavi di acciaio.



- ④ Lift the canopy and remove the screws that keep it fixed to the bracket.

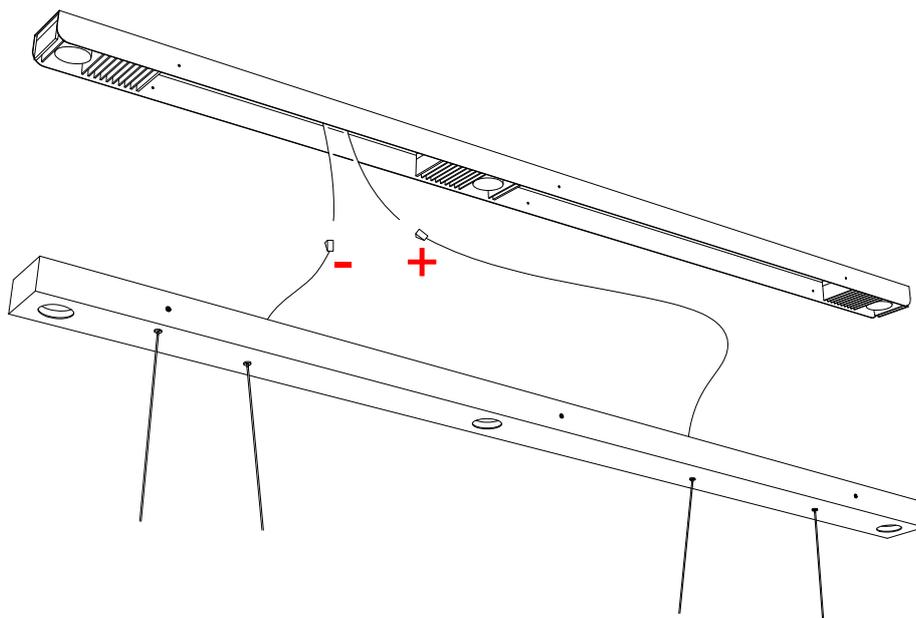
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Sollevare il rosone e rimuovere le viti che lo mantengono fissato alla staffa.



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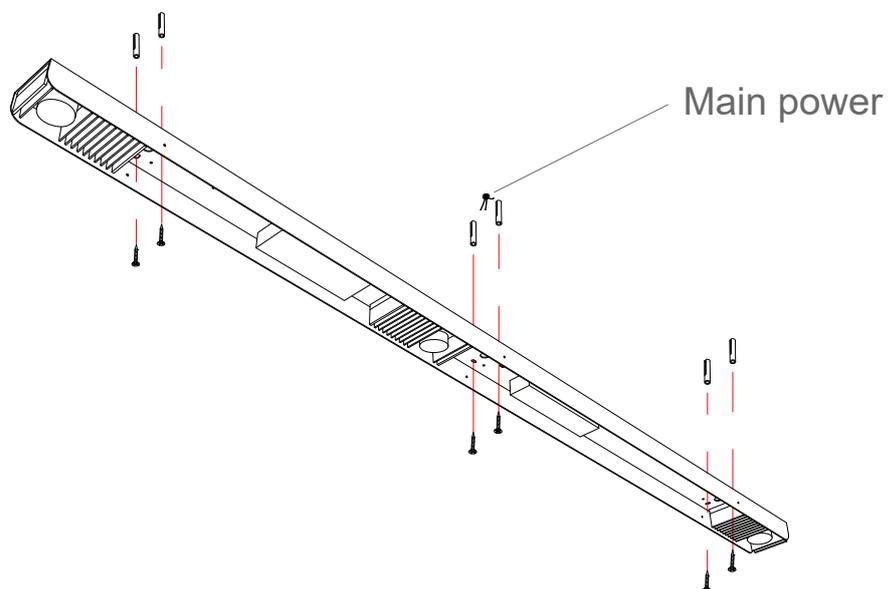
- ⑤ Disconnect the clamps + and -

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Scollegare i morsetti + e -



- ⑥ Fix the bracket on the ceiling (use appropriate anchors depending on the type of ceiling).

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Fissare la staffa a soffitto (utilizzare tasselli appropriati in base al tipo di soffitto).

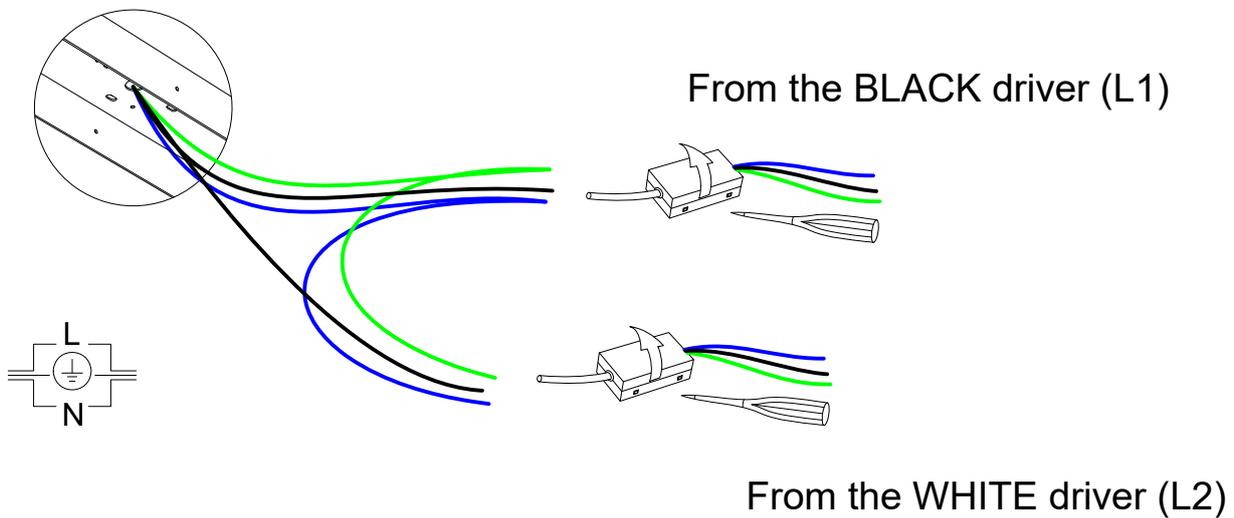


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- ⑦ Connect the cables following the sketch.  
The lamp is provided with clamps for separated light up, if not supported connect the clamps together.

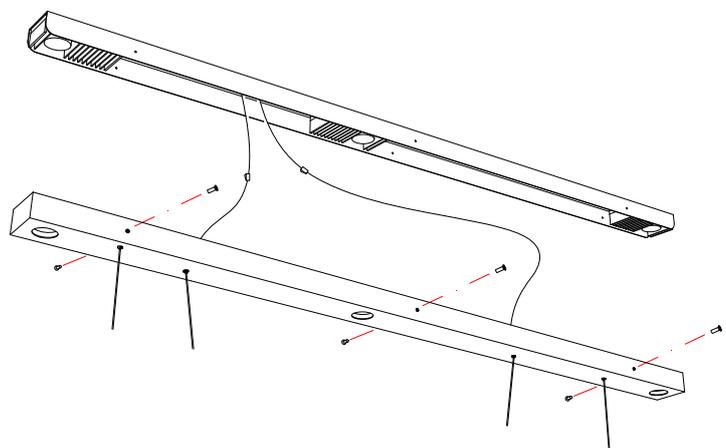
Unire i cavi seguendo lo schema.

La lampada è provvista di morsetti per l'accensione separata, laddove non fosse prevista unire assieme i morsetti



- ⑧ Connect the clamps + and -  
Fix the canopy on the bracket  
with the screws provided.

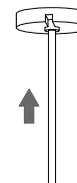
Ricollegare i morsetti + e -  
Fissare il rosone alla staffa  
utilizzando le viti fornite.



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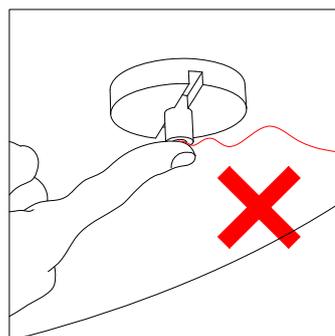
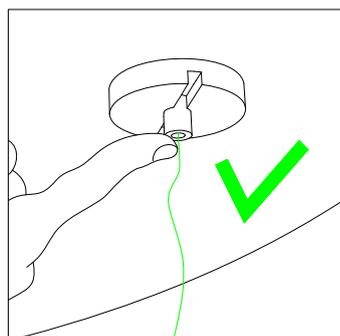
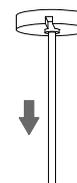
- ⑨ To shorten the length of the metal cable, gently push in the griplock.

Per accorciare l'altezza del cavo metallico, infilarlo delicatamente nel griplock.



To extend the length of the metal cable, gently pull it out, while pushing the griplock's movable part.

Per estendere la lunghezza del cavo metallico, estrarlo delicatamente mentre si esercita pressione sul griplock.

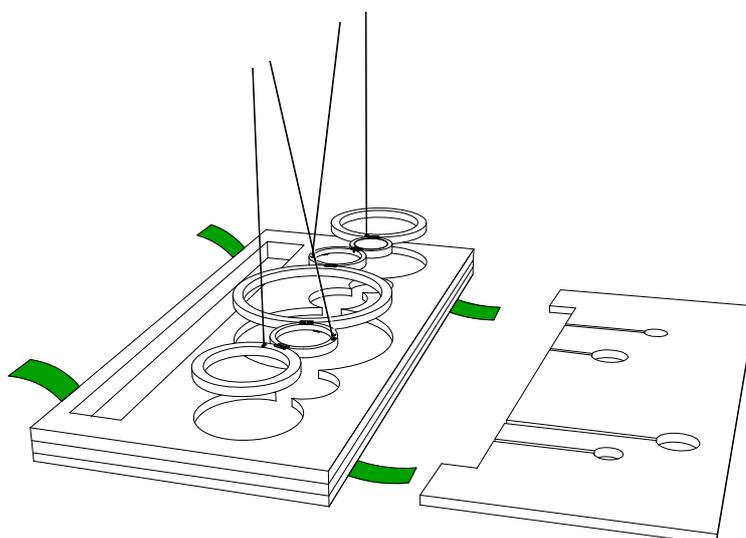


Use the griplock by pressing with the tip of your finger without bending the metal cable.

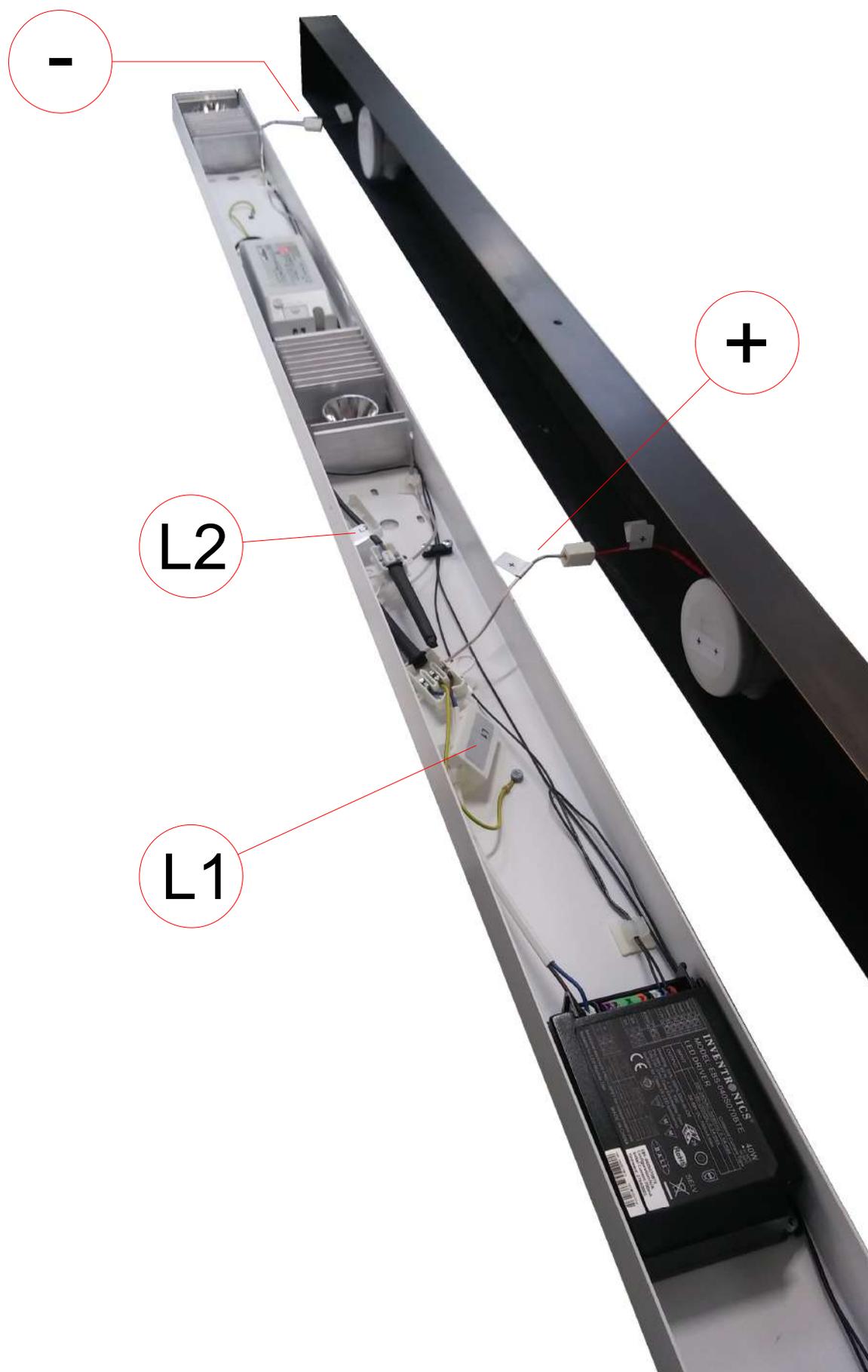
Per regolare il griplock premere con la punta del dito senza piegare il cavo metallico.

- ⑩ Make sure that the lamp is aligned with the ceiling and that the tension of the cables is well distributed. Remove the green adhesive tape. Remove the lamp from the foam.

Assicurarsi che la lampada sia allineata con il soffitto e che la tensione dei cavi sia ben distribuita. Rimuovere il nastro adesivo verde. Rimuovere la lampada dall'imballo.



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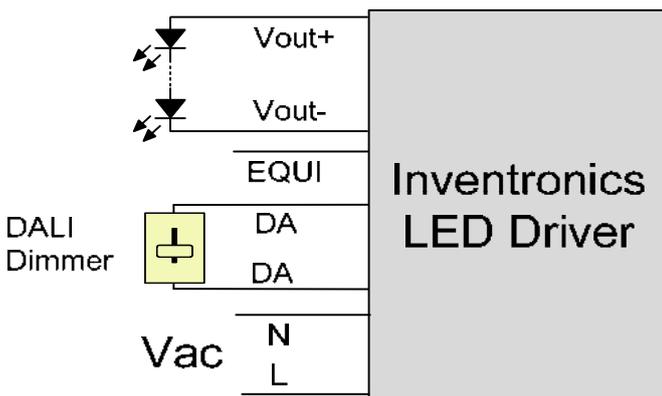




## Features

- High Efficiency (Up to 89.5%)
- Full Power at Wide Output Current Range (Constant Power)
- Thermal Sensing and Protection for LED Module
- DALI/AC Dim/Timer Dimmable (3 Timer Modes)
- Dim-to-Off with Standby Power ≤ 0.5 W
- Always-on Auxiliary Power: 12Vdc, 200mA (Transient Peak Current up to 400mA)
- Output Lumen Compensation
- Long Lifetime Over 90K Hours at 75°C Case Temperature
- Input Surge Protection: DM 6 kV, CM 10 kV
- All-Around Protection: OVP, SCP, OTP,
- IP20 Design and Suitable for Outdoor Applications in Luminaires with IP>54
- SELV Output
- Suitable for Luminaires with Protection Class I and II
- Complies with Zhaga Interface Specification Book 13
- 7 Years Warranty

## ● DALI Dimming



# 60W Single Output LED Power Supply



DRIVER - TRASFORMATORE

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DRAWN BY

N.O.



## MODEL

OUTPUT	DC VOLTAGE							
	CONSTANT CURRENT REGION Note.6							
	RATED CURRENT							
	CURRENT RANGE							
	RATED POWER							
	RIPPLE & NOISE (max.) Note.2							
	VOLTAGE ADJ. RANGE Note.5							
	CURRENT ADJ. RANGE Note.5							
	VOLTAGE TOLERANCE Note.3	±10%						
	LINE REGULATION	±3.0%						
LOAD REGULATION	±5.0%							
SETUP TIME	500ms / 230VAC 3000ms / 115VAC at full load							
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC		127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF>0.92/115VAC, PF>0.9/230VAC at full load (Please refer to "Power Factor Characteristic" curve)						
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading 75% at 115VAC/230VAC input						
	EFFICIENCY (Typ.)	85%	86%	87.5%	87%	88%	89%	89%
	AC CURRENT (Typ.)	0.8A/115VAC		0.4A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=35µs measured at 50% Ipeak) at 230VAC						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	32 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 240VAC						
	PROTECTION	OVER CURRENT	95 ~ 110%					
SHORT CIRCUIT		Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed.						
OVER VOLTAGE		13.8 ~ 16V	17.5 ~ 21V	23 ~ 26V	28 ~ 32V	31 ~ 35V	41 ~ 46V	54 ~ 60V
OVER TEMPERATURE		Protection type : Shut down o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down						
ENVIRONMENT	WORKING TEMP.	-30 ~ +50 (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80 , 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/ (0 ~ 50 )						
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL1310, TUV EN61347-1, EN61347-2-13, GB19510.14, GB19510.1, CAN/CSA C22.2 No. 223-M91(except for 48V), J61347-1, J61347-2-13, EAC TP TC 004 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		I/P-FG:2KVAC		O/P-FG:0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25 / 70% RH						
	EMC EMISSION	Compliance to EN55015, GB17743, GB17625.1, EN61000-3-2 Class C ( 75% load) ; EN61000-3-3, EAC TP TC 020						
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024,EN61547, light industry level, criteria A, EAC TP TC 020						
	MTBF	515Khrs min. MIL-HDBK-217F (25 )						
	DIMENSION	181.5*62*35mm (L*W*H)						
	PACKING	0.41Kg; 30pcs/13.3Kg/0.67CUFT						
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf &amp; 47µf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</p> <p>5. Output voltage can be adjusted through the SVR1 on the PCB ; limit of output constant current level can be adjusted through the SVR2 on the PCB.</p> <p>6. Please refer to "DRIVING METHODS OF LED MODULE".</p> <p>7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</p> <p>8. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</p> <p>9. To fulfill requirements of the latest ERP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.</p> <p>10. The ambient temperature derating of 3.5 /1000m with fanless models and of 5 /1000m with fan models for operating altitude higher than 2000m(6500ft).</p>							