

# USER'S GUIDE



**\*PLEASE READ THIS USER'S GUIDE CAREFULLY BEFORE INSTALLATION**

## 1. GENERAL INFORMATION & PRODUCTS' FEATURES

Thank you for purchasing our LED POWER SUPPLY (LED Driver, Switching Power Supply). This device is an independent constant voltage LED POWER SUPPLY, it converts 100-240V input to 12V, 24V or 5V (please refer to the specification marked on the product's label) constant voltage output. It is designed and manufactured for LED lightings, with below features:

- Over-load / over-current / short circuit protection, Safety Approvals pass.
- Able to work under 100% full loading continuously, tough working condition suitable.
- High transfer efficiency, energy saving.
- Compact size and easy installation.

### Waterproof Type (Leads Connection):

- AC Input: brown wire for Live, blue wire for Null. Yellow/green wire for grounding.

\*American version: black wire for Live, white wire for Null.

- DC Output: red (white) wire for positive +, black wire for negative -.

### Non-waterproof type & Rainproof type (Terminal Screw Connection):

- Please make sure correct positive + and negative - connection (COM means -), please always keep balanced wattage loading and connection. Tight and isolated connection to be 100% assured before power on.

\*Grounding Connection is required for all aluminum housing models.

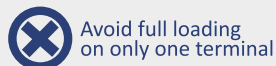
## 3. INSTALLATION AND ENVIRONMENTAL INFORMATION

- The input voltage must fall into 100~240VAC input.
- Make sure work in proper environments as stated in this Guide.
- Do not overload.
- Avoid free of load while a power supply is powered on, keep proper loading.
- Always keep good ventilation around while the power supply is installed.
- Keep minimum 5CM for LED power supplies each other.
- Keep away from inflammable or explosive environments.
- Maximum extension wire length: 200cm.
- Working Environment: -25°C~+50°C, Storage environment: -30°C~+60°C.

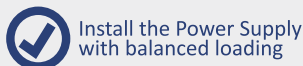
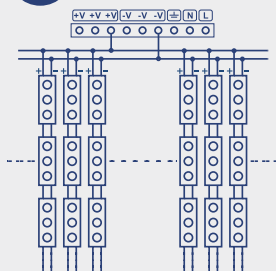
## 4. CAUTIONS FOR CONNECTING LEADS AND LOADING

- The power supply will be automatically protected and enter into abnormal state of intermittent connection (Hic-cup mode) while the load power exceeds the maximal rated output power (normally 5~20% exceeds).
- For models have multi-outlets, do not connect all loading with single outlet, Keep balanced loading is important. If connect with single outlet is necessary, please connect all positive output leads together to provide electricity fully, also do the same on negative leads.
- Too long output wire extension causes voltage drop and power dissipation. Please reduce the loading wattage accordingly if too long extension wires being used.
- Input/output lead's surface listed its diameter and industrial standard, please choose proper extension leads accordingly. In view of the line loss, the longer extension, the thicker leads is needed.
- This power supply can be connected with plugs, but please make sure good connection and insulation.
- Make sure good waterproof treatment on the wire connection while outdoor application.

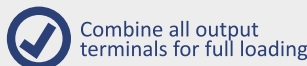
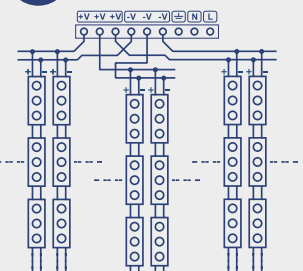
### IMPORTANT NOTICE FOR LEADS CONNECTION



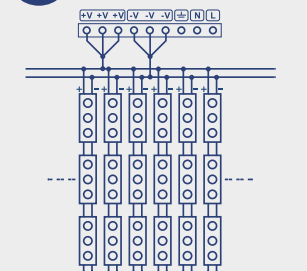
Avoid full loading on only one terminal



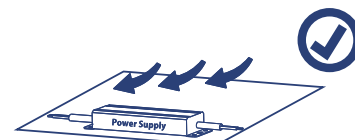
Install the Power Supply with balanced loading



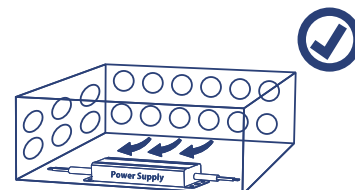
Combine all output terminals for full loading



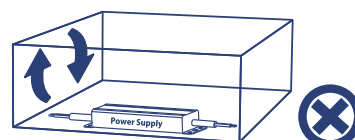
## DO'S AND DONT'S



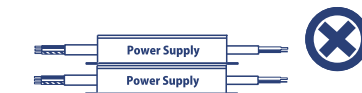
OPEN-AIR LOCATIONS: OK



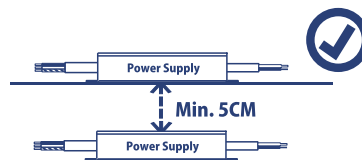
GOOD VANTINATION LOCATIONS: OK



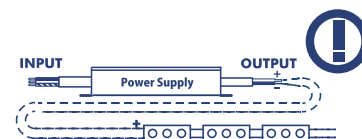
NO INSTALLATION AT ENCLOSED ENVIRONMENT



NO STACKING



Min. 5CM



MAX LENGTH OF EXTENSION WIRE 2 METERS



NO INSTALLATION AT INFLAMMABLE & EXPLOSIVE LOCATIONS

Refer More Tips on Backpage

## TROUBLE-SHOOTING TIPS

A protection circuit inside the Power Supply which will cut off (trip) the power whenever a short circuit or overload condition occurs, please make sure correct connection of positive and negative terminals(+, -) before power on.

### A. No output:

- Check power on/off status, and check whether there's poor wire connection.
- Check whether there's short-circuit/overload/overheat on loading.

(Power Supply will be in protected mode if there's short-circuit/overload/overheat on the loading).

- Check if wrong positive and negative terminal connection.

### B. Over-heated of the Power Supply:

- Keep good ventilation.
- Check the loading status, avoid over loading.

### C. Unsteady power output:

- Check if there's over-loading or improper output extension leads connected.
- Check if there's strong interference in the working environment.
- Check if there's magnetic field around the working environment.

### D. LED light works dark (weak light, LED is not bright enough):

- Check if the output voltage is good for your requirement (5V/12V/24V...etc.).
- Choose proper wires in aspects of wire's thickness and voltage capacity.
- Check if there's over-load or too long extension leads been used.

## INSTALLATION TIPS (GB)

1. Please identify the power supply's input and output before installation.
2. Correct output + & - wire connection is to be ensured. Power on after wire connection is done.
3. Loading wattage must be less than the rated wattage, 50%~90% loading is recommended.
4. To avoid voltage drop and loading capacity's wasting on the output extension wire, please install the power supply to the loading as near as possible, if must use long extension wires, please choose thicker wires and reduce the loading wattage.
5. The power supply to be installed at good ventilation and cooling environment.

## CONSEILS D'INSTALLATION (FR)

1. Veuillez à identifier les côtés d'entrée et de sortie du driver avant l'installation.
2. Assurez-vous d'avoir bien respecté les polarités + et -.
3. La puissance de charge doit être inférieure à la puissance nominale, 50 à 90 % de moins sont recommandés.
4. Pour éviter les chutes de tension et les pertes de capacité de charge au secondaire, installez le driver le plus près possible des leds. Si vous devez utiliser de longs câbles, choisissez des fils plus épais et réduisez la puissance de charge.
5. L'alimentation doit être installée dans un endroit ventilé et tempéré.

## INSTRUCCIONES DE INSTALACIÓN (ES):

1. Identifique los cables de energía de esta fuente de poder, teniendo cuidado de identificar claramente el "input" y el "output" de la fuente, pues los voltajes de entrada y salida son distintos y podría quemar la fuente si los conecta equivocadamente. El cable de "input" tiene una marca que indica el rango de voltaje de entrada a la fuente.
2. Conecte correctamente los cables de salida de la fuente, donde dice "+" y donde dice "-", para evitar un corto circuito. Conecte la energía eléctrica después de haber conectado los cables como se indica.
3. La carga de potencia a la cual sea sometida la fuente, debe ser la correcta dentro del rango de potencia que se indica para cada tipo de fuente. Se recomienda que la carga esté dentro de un 50% a un 90% de la carga máxima que se indica para cada fuente.
4. Para evitar pérdidas de tensión (voltaje) y/o pérdidas en la capacidad de carga en los cables de salida o de extensiones añadidas a los de cables, asegúrese de instalar la fuente de poder a una distancia lo más cerca posible de la zona de carga (consumo). Si usted debe usar cables de extensión, asegúrese de usar cables más gruesos y de reducir la carga de consumo.
5. La fuente de poder debe ser instalada en un lugar que tenga una adecuada ventilación y una temperatura ambiente lo más fría posible. Esto incrementará la vida útil de la fuente y mejorará su rendimiento.

## SUGGERIMENTI PER UNA CORRETTA INSTALLAZIONE (IT)

1. Prima dell'installazione identificare i connettori di ingresso e uscita dell'alimentatore.
2. Connettere adeguatamente i cavi rispettando la polarità. Dare corrente all'impianto solo a cablaggio completato.
3. Il carico consigliato dovrebbe essere tra il 50% e il 90% del carico indicato (es. alimentatore 100W, carico consigliato 50-90 W)
4. Al fine di evitare cali di tensione e perdite di potenza all'uscita dell'alimentatore, si consiglia di collegare l'alimentatore il più vicino possibile

al carico. Qualora sia necessario usare cablaggi molto lunghi si suggerisce di usare cavi di sezione più grande dello standard e ridurre il carico dell'alimentatore.

5. Posizionare l'alimentatore in zona ben ventilata al fine di consentire una migliore dissipazione del calore prodotto.

## ИНСТРУКЦИЯ ПО УСТАНОВКЕ (RU):

1. Пожалуйста, определите расположение выхода и входа на источнике питания, напряжение сети должно находиться в определенном диапазоне рабочего напряжения питания, указанного на этикетке.
2. Проверьте входной и выходной провода, так чтобы выход "+" соединялся с положительным полюсом светодиодов, выход "-" - "подсоединялся с его отрицательным полюсом."
3. Рекомендованная нагрузка для долговременной эксплуатации источника питания предполагается в пределах 50-90% от заявленной мощности.
4. Что бы избежать падения напряжения на выходе, старайтесь подключать источник питания как можно ближе к объекту нагрузки. Если нужно подать питание на большую длину, старайтесь использовать провод большего сечения и снизьте нагрузку на источник питания.
5. Обеспечьте источнику питания благоприятные условия для теплоотвода и вентиляции.

## INSTALLATIONSTIPS (DE)

- 1 Der LED-Trafo liefert eine konstante Ausgangsspannung (CV) von 12 beziehungsweise 24 Volt, bitte kontrollieren Sie hierzu die auf dem Gerät angegebene Ausgangsspannung. Eingangsspannung ist von 100 bis 240 Volt Wechselstrom. Es ist klein und leicht zu montieren. Staub- und wasserdicht nach Schutzklasse IP67.
- 2 Vergewissern Sie sich vor der Installation, dass Sie die Anschlüsse für Ein- und Ausgang korrekt bestimmt haben. Versichern Sie sich, dass Plus- & Minuspol korrekt angeschlossen sind. Schalten Sie erst jetzt die Stromzufuhr ein. Wechselstrom Input: braunes Kabel für das Leben, blaues Kabel für die Ader, gelbes oder grünes Kabel ist für Erdung. DC Output: rotes Kabel für positive +, schwarzes Kabel für negative -.
- 3 Die Summe der Watt-Zahlen der angeschlossenen Verbraucher (=Last) darf die angegebene maximale Watt-Zahl des Transformators (=Maximallast) nicht überschreiten. Wir empfehlen die angeschlossene Last auf 50%-90% der angegebenen Maximallast zu dimensionieren.
- 4 Klemmenblock ist nicht inbegriffen. Die Installation muss von einer qualifizierten Person montiert werden. Eine geeignete Größe der Anschlussdose mit internen 3-Wege-Klemmenblöcke, die zu EN60998-2-1 oder EN60998-2-2 verwendet werden entsprechen, mehr Spezifikation über Klemmenblock, wie unten: Screw Terminal Block 450V 5A, 1.0-2.5mm<sup>2</sup>
- 5 Installation in einem ausreichend ventilierten Ort (Minimumdistanz zu umgebenden Bauteilen ist 5 cm). Maximale Ausdehnung Kabellänge: 200 cm
- 6 Positionieren Sie den Transformator so nahe möglich bei den Verbrauchern um Leistungsverlust zu vermeiden. Sollte dies nicht möglich sein verwenden Sie bitte Kabel mit größerem Querschnitt und verringern Sie die angeschlossene Last.
- 7 Installieren Sie den Transformator in gut ventilierter und kühler Umgebung. Umgebungstemperatur im Betrieb -25°C bis +50°C (Umgebungstemperatur bei Lagerung -30°C bis +60°C).

## نصائح مفيدة للتجهيز

1. الرجاء تحديد دخل منبع القدرة وخرجه، يجب أن تكون فلطية الدخل ضمن نطاق الدخل المحدد على البطاقة.
2. يجب التأكد من الخرج الإيجابي واتصاله بالسلك السلبي. يتم التشغيل بعد إتمام الوصل السلكي.
3. يجب أن تكون وطية التحميل ضمن الوطية المقدرة، يُنصح بتحميل ما بين ٥٠ و ٩٠٪.
4. لتجنب هبوط الفلطوبة وهدر قدرة التحميل على سلك الخرج الإمتدادي، الرجاء تجهيز منبع القدرة للتحميل في أقرب مكان ممكن، وعند الضرورة استخدام أسلاك امتدادية طويلة، والرجاء اختيار أسلاك أكثر سماكة وتخفيف وطية التحميل.
5. تجهيز منبع القدرة في محيط حسن التهوية والتبريد.

## TALIMATI (TR):

1. Güç kaynağının giriş ve çıkışına dikkat edin. Giriş Voltajı etikette belirtilen aralıkta olmalıdır.
2. + ve - çıkış tellerinin doğru bağlandığından emin olun. Doğru bağlantı yaptıktan sonra elektrik verin.
3. Yükleme gücü (Watt) belirtilen aralıklarda olmalıdır. %50 - %90 tavsiye edilir.
4. Yükleme kapasitesinde, çıkış bağlantı kablosundan oluşacak voltaj düşüklüğünü engellemek için, güç kaynağını yüklenene en yakın yere monte edin. Uzun bir bağlantı kablosu kullanılmak zorundaysa, daha kalın kablo kullanın ve yüklenen gücü (Watt) azaltın.
5. Güç kaynağı, iyi havalandırılan, ve uygun soğutma sağlanabilecek yerlere monte edin.