POWER SOURCE

Constant Current LED Driver with NFC Function

LPDC-60 series

RoHS IP20 SELV

Features:

- AC Input Range: 200~240VAC with PFC
- Constant Current Range: 500mA~2100mA
- Protections: Short Circuit, Over Load, Over Temperature
- In-build applications
- Cooling my free air convection
- Compatile witih most Leading and Trailling Edge Dimmers

Model		LPDC-60
Output	Rated Current (mA)	500mA - 2100mA (The output current can be adjusted arbitrarily in this range using NFC)
	DC Voltage (V)	3-42V
	Rated Power	60W (MAX)
	No-load voltage (max)	48-52V (MAX)
	Current Tolerance	±30mA
	Load Regulation	± 2%
Input	Voltage range	200-240VAC
	Frequency range	47~63HZ
	Power Factor	PF≥ 0.98@230VAC
	No-load Power(MAX)	<4W@230VAC
	THD@full load	6.6%@230VAC
	Efficiency (Typ.)	≥83%@240VAC
	AC current (Max.)	0.39A
	Inrush Current (Typ.)	17.6A, 36us@50%Ipeak230VAC
	Leakage Current	≤0.50mA
Protection	Short circuit	Constant current mode, recovers automatically after fault condition is removed
	Over load	Hiccup mode ,recovers automatically after fault condition is removed
	Over temperature	Ambient temp. over 55°C±5°C, output current will be reduced to 50%; Ambient temp. over 60°C±5°Cshut down output, recovers automatically after the temp. drops.
Environment	Working TEMP.	-40 ~ +60°C (refer to de-rating curve)
	Working humidity	20-90%RH, non-condensing
	Storage TEMP., humidity	-40~+80°C,10-95%RH
	TEMP. coefficient	±0.03%/°C (0-50°C)
	Vibration	10-500Hz, 2G 12min./1 cycle, period for 72min, each along X, Y, Z axes
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13 (EU)
	Withstand voltage	I/P-O/P: 3.75KVAC (EU)
	EMC Emission	EN55015 EN6100-2-2 EN6100-2-2 (EU)
	Stroboscopic test standards	IEEE 1789
	Harmonic test standards	IEC/EN 61000-3-2
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
	EMC emissions (Note 3.)	EN55015, EN61000-3-2-3
	Lighting Surge	Meet the difference mode 2.5KV
Others	Net. weight	0.3KG
	Size	324.7*34.8*24.1mm (L*W*H)
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Tolerance: Includes set up tolerance and load regulation.	

Dimming Operation

- Dimming is with installing a leading edge, or trailing edge dimmer across the AC input.
- Compatible with most leading edge and trailing edge dimmers. Australian compatibility table available on request.
- It is recommended that a dimmer, with a power rating three times higher than that of the rated output of the LED driver is used.

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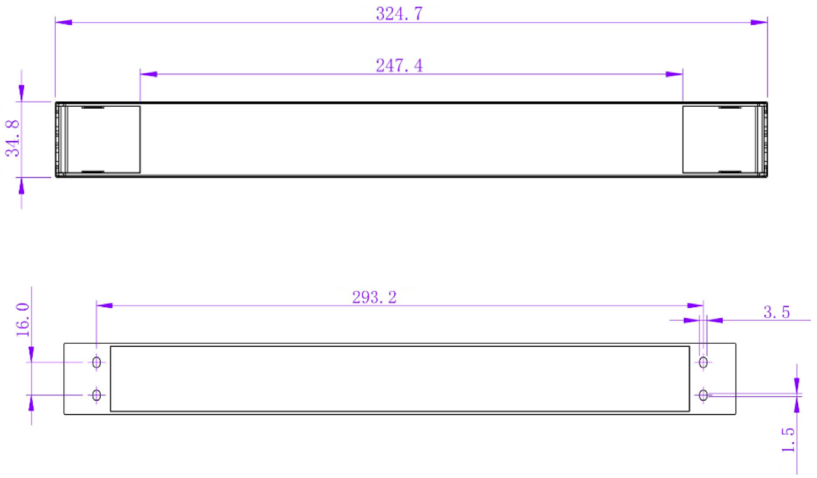
Mechanical Specification

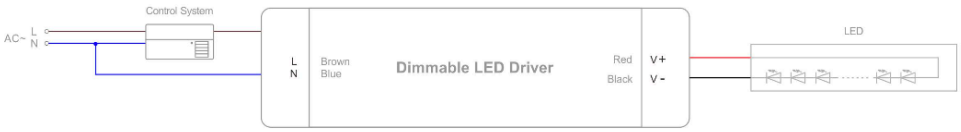
- Connect LED to LED driver via screw terminals under removable cover. Positive (LED+), Negative (LED-).
- Suggested output wire diameter: 0.5-2.5mm².
- Incorrect wiring could result in damage to the power supply, which is not covered by the warranty.
- Contact your supplier with specific input, or output configuration requests.



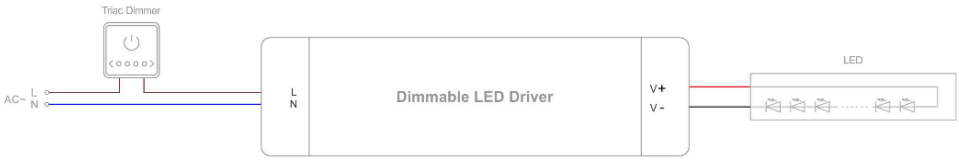
Triac/Phase Cut Dimming

- Output constant current level can be adjusted through input terminal of the AC phase line (L) by connection a Triac dimmer.
- Usually matching with leading edge and trailing edge both. 2.At input area of LPDC series: ON key for leading edge; 1 key for trailing edge.
- Please try to use the small power dimmer, have access to a wider dimming range, high-power dimmer is difficult to achieve the output current to zero.
- Please use dimmers with power at least 2 times as the output power of the driver.

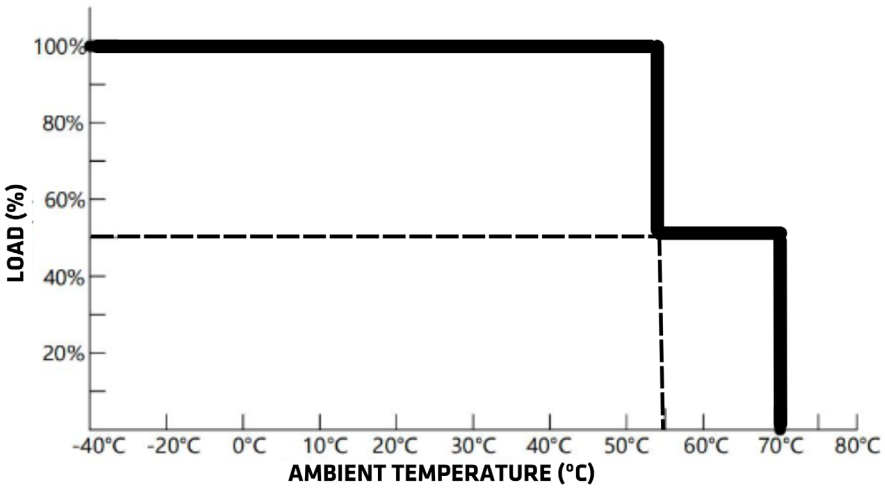
Triac



Triac



De-rating Curve



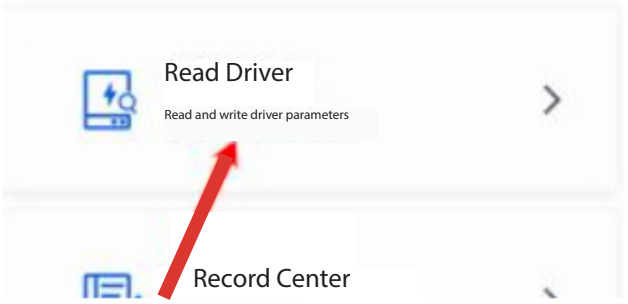
- If being used in higher ambient temperatures, ensure the load on the LED driver is de-rated in accordance with this chart. Failure to do so could lead to a failure, which is not covered

1) This LED driver should be installed by a qualified electrician.
2) Please make sure the LED driver is installed with adequate ventilation around it to allow for heat dissipation.
3) Ensure that all wiring is correct before testing in order to avoid damage to the LED driver, or the LEDs.

NFC Function Operating Instructions

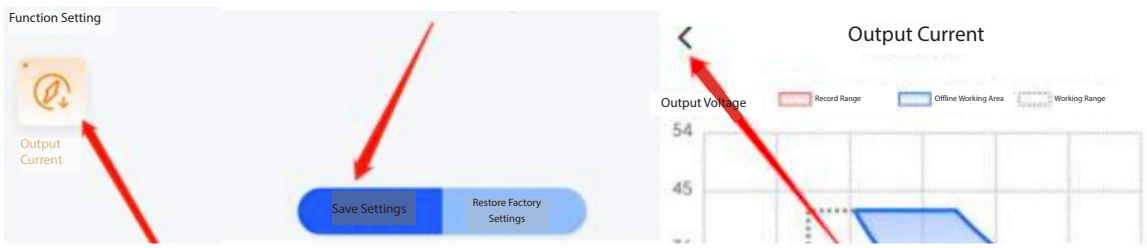
1. Scan the QR Code to download the Pro NFC App:

2. Open the ProNFC APP. Click 'READ DRIVE' after displaying NFC interface

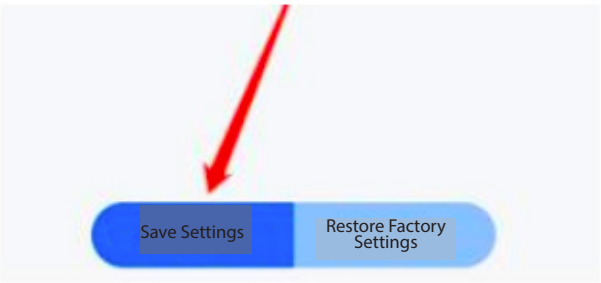


3. Read and write using a mobile device with a ProNFC APP via an NFC signal area near the power drive.

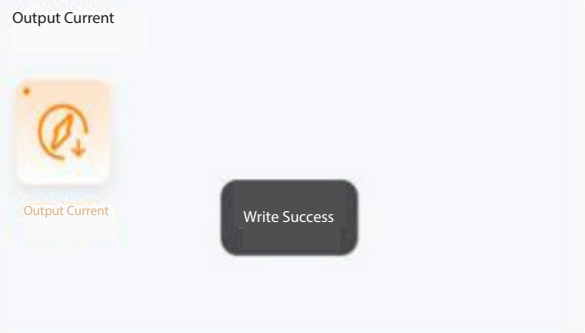
4. Click "Output current" to set the current, cannot exceed current range value (300-1050mA), the corresponding voltage is displayed after the setting value range (The load voltage cannot exceed the corresponding voltage range). After the setting is successful, click "Save Settings" and then "return".



5. Click 'Write All' to write near the voltage driven NFC signal area



6. The Writing is displayed successfully.



Instructions

1. Confirm if the rated input voltage of the power supply is within the range of market voltage before use.
2. Pay attention to the distinction between the input and output lines of the power supply to avoid power damage or unnecessary safety
accidents caused by connecting the reverse line.
3. The power supply cannot be stacked for installation (placement), and the installation distance between the power supply and the power supply should be greater than 10cm. Multiple power supplies should be installed in a narrow space, and the environmental temperature should be less than 55 °C during use; For example, distribution boxes, etc.
4. In order to extend the service life of the power supply, the power supply should be installed in an environment that is conducive to heat dissipation as much as possible. As the ambient temperature increases, the power used by the power supply gradually decreases, and the lifespan of the power supply also gradually shortens.
5. Do not use under abnormal loads: Overloading can cause damage to the power supply, and extremely light loads can cause the power supply to malfunction.
6. To ensure safety and reduce interference, please ensure that the grounding wire is reliably grounded.
7. This driver should be installed by qualified and professional person.
8. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
9. Ensure that wiring is correct before test in order to avoid light and power supply damage.
10. If driver Cannot work normally, don't maintain privately.

If you have any questions, please contact ADM Systems Pty Ltd