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Lynk Labs BriteDriver AC LED Electronic power supply

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BriteDriver™ Product Sheet

BriteDriver™ technology is a patented AC-LED driver/power supply technology used to drive LEDs with AC at high frequencies. Based on the LED lighting application, a BriteDriver driver may be an on-board or off-board driver or power supply.

In many cases, Lynk Labs AC-LED modules have on board drive solutions allowing for drop-in Plug n' Play into an existing AC power sources such as high voltage AC mains or existing low voltage AC lighting transformers .

BriteDriver drivers are high efficiency power supplies that deliver more power output per watt in a significantly smaller package than any available DC LED power supply - and at lower cost.

With BriteDriver drivers, LED product integration is made easier by enabling product designers, architects or contractors to integrate a power supply as they have before with other lighting products.

Unlike constant current DC systems, BriteDriver and Lynk Labs other AC LED products significantly increase product and system reliability since the modules cannot be over driven if one or more LEDs fail.

BriteDriver Product Features:

- High Reliability
- Moisture Resistant
- Emits No Audible Noise
- Low Harmonic Distortion
- High Power Factor
- Lightweight, Compact Design
- Small Case Size

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BriteDriver drivers are also dimmable on the input or output side based on the system requirements.

Lynk Labs BriteDriver Drivers along with AC LED modules are providing *Bulb n' Ballast* solutions for LEDs.

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BriteDriver Technical Specification

Operating Characteristics

BriteDriver	
Drive Voltage	11.5 V AC (RMS)
Drive Frequency	40Khz inverter square wave, 100/120 Hz sinewave envelope
Max case temp	90 Degree
Sound rating	A +
Operating Humidity	95% relative humidity, non-condensating
Safety Listing	Class P Type 1 outdoor

Electrical/Mechanical Specifications

Input	120VAC, or 230VAC - 50/60 Hz	**Output**	11.5 V AC
Enclosure Material	Metal	**Weight**	2.4 oz.
Power Factor	> 0.95	**Operating Frequency**	40 KHz
Total Harmonic Distortion	≤ 20%	**Safety Standard**	Class 2-
Input Leads	6”, 18AWG stranded,	**Output Leads**	6”, 18AWG stranded

Features

Soft Start Circuitry

BriteDriver utilizes a soft start circuit to reduce stress on LEDs. The soft start circuit ramps up the LED voltage slowly to avoid current overshoot.

Electronic Short-Circuit Protection

BriteDriver employs Electronic Short Circuit and over load Protection (ESP). The ESP sensing circuit will instantly shut down the output before any of the components are stressed if a short circuit or over load is detected. The Driver will automatically reset as soon as the fault is corrected.