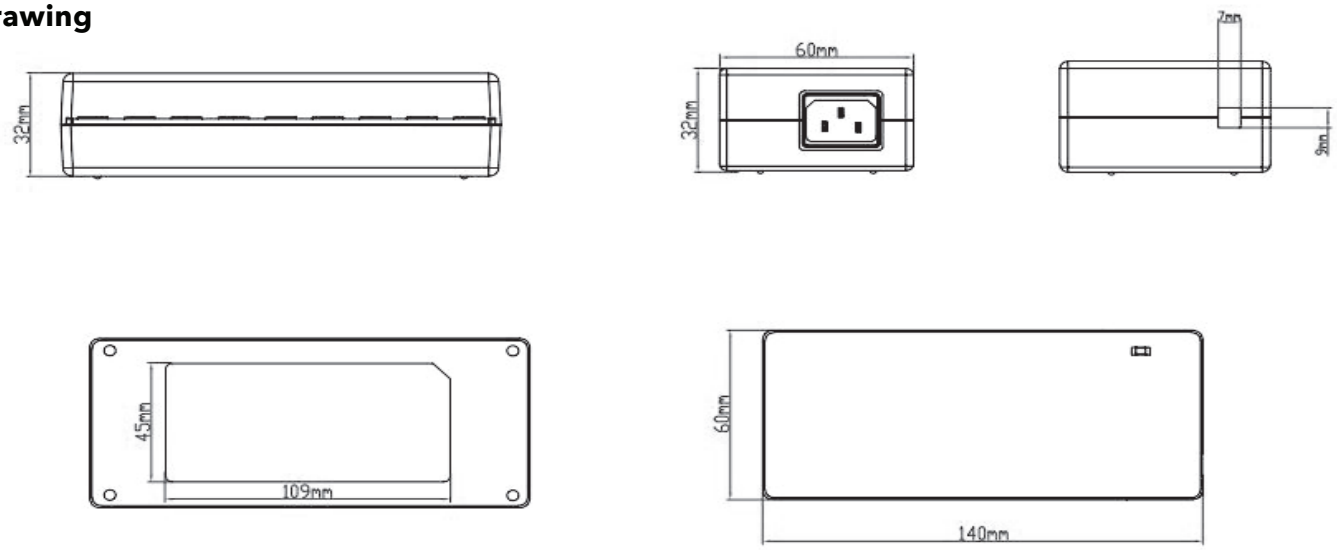
NATIONAL SPECIALTY LIGHTING
YOUR TRUSTED LIGHTING PARTNER

Plug-in Driver

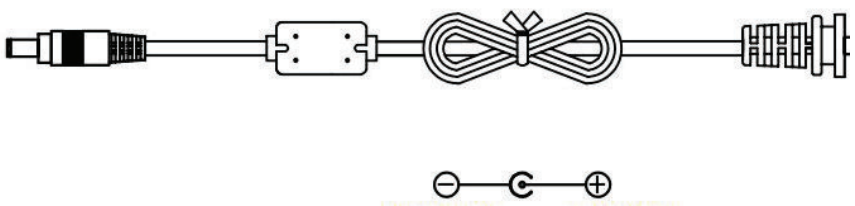
The plug-in driver is designed for high-performance LED lighting applications, offering efficiency, reliability, and comprehensive protection features. This driver is suitable for a wide range of settings, including residential, commercial, and industrial environments. [Click here for 48W] ; [Click here for 96W]

Drawing



Dimensions (Length X Width X Height): 140 x 60 x 32mm Tolerance: ±1mm

Input and Output Connectors



NATIONAL SPECIALTY LIGHTING
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Plug-in Driver

48W Continuous Output Power

Key Features

- **Power Output:** 48W
- **Rated Voltage Range:** Operates within a wide voltage range of 100V AC to 240V AC
- **Efficiency and Power Factor:** High Power Factor Correction (≥0.9)
- **Output Voltage:** 24V DC
- **Safety Features:** Includes an input fuse (3.15A, 250V AC) and overcurrent protection (≤3.5A) with short circuit protection (Hiccup mode).
- **Operating Temperature:** -20°C to 25°C
- **RoHS Compliance**

Specification Table

Parameter	Details
Input Frequency	50Hz/60Hz
Input AC Current	≤1.5A at 100 to 240Vac input
Inrush Current	50A Max. @110VAC/60Hz
Output Voltage Limit (V DC)	22.8V - 25.2V
Combined Load/Line Regulation	Voltage= 24V DC, Min. load=0A, Rated Load=2.0A
Turn-On Delay Time	100V AC / 4s, 240V AC / 3s
Over Current Protection	115V AC: ≤3.5A, Short Circuit Protection: Hiccup
	230V AC: ≤3.5A, Short Circuit Protection: Hiccup
Over Voltage Protection	Self-recovery upon fault removal

NATIONAL SPECIALTY LIGHTING
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Plug-in Driver

96W Continuous Output Power

Key Features

- **Power Output:** 96W
- **Rated Voltage Range:** Operates within a wide voltage range of 100V AC to 240V AC
- **Efficiency and Power Factor:** High Power Factor Correction (≥0.9)
- **Output Voltage:** 24V DC
- **Safety Features:** Includes an input fuse (5A, 250V AC) and overcurrent protection (≤3.5A) with short circuit protection (Hiccup mode).
- **Operating Temperature:** -20°C to 25°C
- **RoHS Compliance**

Specification Table

Parameter	Details
Input Frequency	50Hz/60Hz
Input AC Current	≤2.0A at 100 to 240Vac input
Inrush Current	50A Max. @110VAC/60Hz
Output Voltage Limit (V DC)	22.8V - 25.2V
Combined Load/Line Regulation	Voltage= 24V DC, Min. load=0A, Rated Load=4.0A
Turn-On Delay Time	100V AC / 4s, 240V AC / 3s
Over Current Protection	115V AC: ≤7A, Short Circuit Protection: Hiccup
	230V AC: ≤7A, Short Circuit Protection: Hiccup
Over Voltage Protection	Self-recovery upon fault removal

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Plug-in Driver

Storage & Instructions

- **Working Environment Requirements:**
  - Altitude: ≤ 10,000 feet
  - Temperature Range: -20°C to +25°C
  - Humidity Range: 20% to 80%

- **Storage Conditions:**
  - Low-Temperature Storage:
    - Temperature: ≥ -20°C (non-icing environment)
    - Altitude: ≤ 30,000 feet
  - High-Temperature Storage:
    - Temperature: ≤ +70°C
    - Relative Humidity: 10% RH to 90% RH

- **Storage Aging of Power Adapter:**
  - General Storage:
    - Store for no more than six months to avoid performance degradation.
  - Long-Term Storage:
    - Prolonged storage affects the capacity of aluminum electrolytic capacitors, leading to reduced performance.
    - Temperature and humidity variations during storage can further degrade performance.
  - Activation After Long-Term Storage:
    - If stored for an extended period, power up the adapter with an 80% load for two hours to reactivate it.
    - Failure to do so may result in no output or potential explosion of the electrolytic capacitor.

Ordering Code(s)

48W Continuous Output Power: **PGID2448-24V**

96W Continuous Output Power: **PGID2496-24V**

Project		Type	
Date		Contact	
Notes			