

## OVERVIEW

The nLight nPP16 EFP family of power packs is the workhorse of an nLight system, delivering robust system performance and design versatility for commercial and industrial lighting control applications. The nPP16 EFP family is capable of switching loads via an internal latching relay designed with robust protection from the harsh switching requirements of T5 fluorescent and LED loads. These power packs also provide nLight system bus power - up to 40mA from each of its two RJ-45 ports - by transforming Class 1 line voltage (120/277 VAC or 347 VAC) to Class 2 low voltage (15 VDC). This power is typically utilized by other nLight devices within the power pack's local control zone; however, remaining power is also made available over the network for Bridges and devices in other zones to utilize.

## FEATURES

- Communicates w/ nLight Network
- Self-Contained Relay Switches Line Voltage Load
- Supplies 40mA of Bus Power / RJ-45 port
- Optional out-of-box vacancy and partial-on modes
- Remotely Configurable/Upgradeable
- Push-Button Programmable
- Configurable Relay Logic
- Extended Chase Nipple
- Plenum rated
- Includes fuse integrated to relay wirelead for protection from load faults
- Meets NEMA410 ratings for LED/electronic ballast inrush



## nPP16 EFP Power/Relay Pack



Model #: nPP16 (D) EFP

## Warranty

Five-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.  
 Specifications subject to change without notice.



## ORDERING INFORMATION

Series	Dimming	Fault Protection	Default Mode	Voltage	Temp/humidity
nPP16 Power/Relay Pack	[blank] None D 0-10VDC Dimming output (via chase nipple) DS 0-10VDC Dimming output (via side slot)	EFP External Fault Protection	[blank] Auto On (Switch Ch. 1) SW2 Auto On (Switch Ch. 2) SA Manual On (Switch Ch. 1) SA2 Manual On (Switch Ch. 2) PA70 Auto On to 70% (Partial On) <sup>1</sup> PA Auto On to 50% (Partial On) <sup>1</sup>	[blank] 120/277VAC 347 120/347VAC	[blank] Standard LT Low temp

ACCESSORIES
NPP FUSE J10 Replacement Fuse (10 Pack)

1. Requires D or DS option.

## SPECIFICATIONS

<b>Electrical</b>	<b>Input Ratings</b>	120/277VAC, 50/60 Hz 120/347VAC, 50/60 Hz (with 347 option)
	<b>Output Ratings</b>	120/277VAC (120/347VAC with 347 option), 50/60 Hz, 16A - Tungsten, Standard Ballast, Electronic Ballast, General Purpose 120VAC, 50/60 Hz, 1/2 HP - Motor SCCR: 5KA 100mA, 0-10VDC Dimming Sink Current
	<b>Relay Type</b>	Latching
	<b>Low Voltage Output Ratings</b>	15VDC, 40mA per RJ-45 Port (80mA total)
	<b>Class Rating</b>	0-10V Dimming can be wired Class 1 or 2
	<b>Standards/ Ratings</b>	Energy Management Equipment, UL916 (E167435)
<b>Mechanical</b>	<b>Dimensions</b>	3.38"H x 2.53"W x 1.83"D (86mm x 64mm x 47mm) - does not include 1/2" chase nipple
	<b>Mounting</b>	1/2" Knockout (7/8" hole)
	<b>Color</b>	White
	<b>Connection Type</b>	RJ-45 nLight Network Ports (2) Non-Dimming Model: Line Voltage Leads Dimming Model: Line and Low Voltage Leads
	<b>Warrantied Operating Temperature</b>	Standard: 14°F to 122°F (-10°C to 50°C) Standard: 14°F to 113°F (-10°C to 45°C) if enclosed within a junction box LT option: -4°F to 122°F (-20°C to 50°C)
<b>Environmental</b>	<b>Relative Humidity</b>	Up to 90%, Non-Condensing
	<b>Standards/ Ratings</b>	RoHS, Plenum UL2043
	<b>General</b>	<b>Standards/ Ratings</b> System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC

## WIRING

T568B pin/pair assignment is recommended for all CAT-5e cables. For Supply Connections, use 14 AWG or larger wires rated for at least 90° C.

