

# DATASHEET

## LED DRIVER

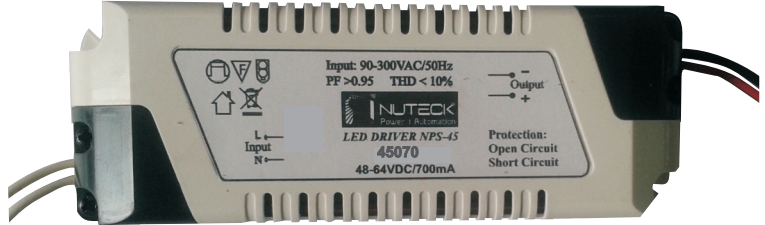
### NPS-45

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## Non-Dimmable Electronic Control Gear With Active PFC

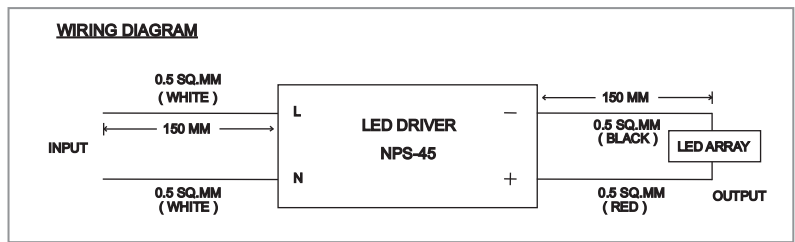
**• Features:**

- Universal AC input 90VAC ~ 300VAC
- Protections: Short Circuit / Overcurrent / Over voltage / Over Temperature
- Cooling by free air convection.
- Class II Power Unit, no eFG
- Built in active PFC function
- Small and Compact size
- 100% Full Load Burn-in Test.
- Suitable for built in application of LED Lighting.
- High reliability, Low Cost



**SPECIFICATION**

MODEL	36070	36100	36150	40100	40150	40200	45070	45100	45150	45200	
Output	Rated Current	700mA	1050mA	1500mA	1050mA	1500mA	2000mA	700mA	1050mA	1500mA	2000mA
	LED Operation Voltage	38~51V	27~36V	18~24V	30~40V	20~27V	15~20V	48~64V	33~45V	22~30V	16~22V
	Typical Output Power	36W			40W			45W			
	Current Accuracy	±5%									
Input	Voltage Range	90VAC ~ 300VAC									
	Current @230VAC (Typ.)	193mA			215mA			242mA			
	Frequency Range	45Hz - 65Hz									
	Power Factor	>0.95 at 100% load									
	ATHD	<10%									
	Efficiency	>89%									
	Inrush Current	<10A At 230VAC									
Protection	Open LED Protection	Hiccup mode, recovers automatically after fault condition is removed									
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed									
Environment	Amb. Temp. Range	-10°C to 40°C.									
	Working Humidity	20 to 90%RH Non Condensing.									
	Storage Temp Humidity	-20 to 85°C, 10 to 95% RH.									
Safety & EMC	Safety Standard	Designed to meet IS 15885-2-13, UL60950-1									
	Withstand Voltage	I/P-O/P : 3KVAC									
	EMC Emission	Designed to meet EN61000-3-2 Class C (>=75% load); EN61000-3-3									
	EMC Immunity	Designed to meet EN61000-4-2,3,4,5,6,8,11, EN61547, Light industry I/VI (Surg 2KV), Criteria A									
Others	Cooling	Natural Cooling.									
	Enclosure Protection	IP 20									
	Dimension	132 x 45 x 26mm (L*W*H)									
Note	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature. 2. Tolerances include standard tolerances, line regulation and load regulation. 3. Specifications are subject to change without prior notice due to constant improvement in design & technology. 4. Constant current operation region is within 75% ~ 100% rated output voltage. This is the suitable operation region for LED rated applications, but please confirm special critical requirements for some specific system design.										



SMPS | DC DC Converters | Adapters | PoE Injectors & Splitters | Battery chargers | Battery Backup Systems  
 LED Drivers | OVP | AVR | Relay I/O Modules | Protection Relays | Surge Protectors | Inverters | Fan Controllers