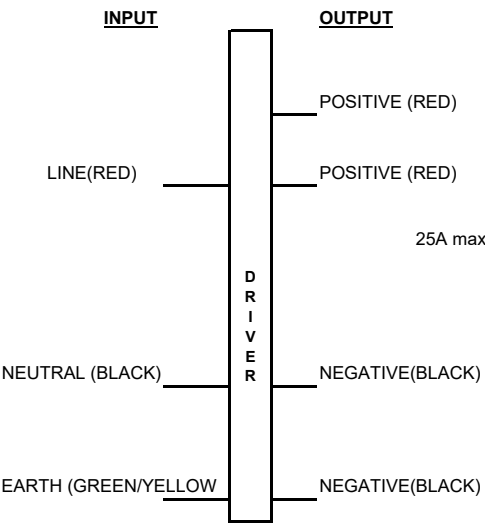




Ordering 12 NC	9290 034 13606
Brand Name	PHILIPS
Description	LED Driver 300W 12V 25A
Model Number	C300C2500V012FNA1AO
Input Voltage	180-305V
Input Frequency	50 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Approved

Input Power (W)	Input Current (Arms)	Power Factor @Max Load	THD @ Max Load (%)	Surge Protection Diff.(KV)	Output Power (W)	Output Voltage (VDC)	Output Current (A)	Efficiency at Max Load (%)	Max Case Temp (°C)	Weight (Kg)	Envir. Protection Rating
329	240V	≥ 0.45	NA	6	300	11.5-12.5	25	240V	70	0.71	IP66
	2.82							91			

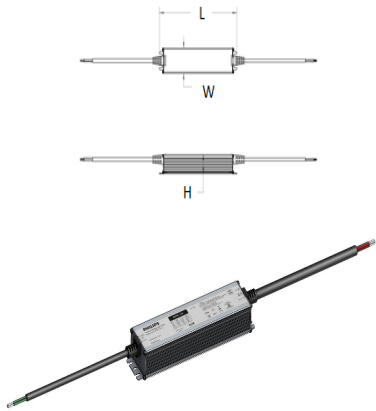
Wiring Diagram



Input Terminal
Wire type: 3 wire.

Output Terminal
Wire type: 4 wire.

Enclosure



	(mm)
Case Length	246
Case Width	51
Case Height	35
Mounting Length	230
Input Wire length	200
Output Wire length	190

PHILIPS

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Constant Voltage Led Driver

Model No: C300C2500V012FNA1AO

Operating range: 180-305V

MADE IN INDIA

300W 12V

U _{in} : 240V	U _{out} : 12Vdc
F _{req} : 50Hz	P _{out} : 300W
I _{in} : 2.82Aac	I _{out} : 25Adc
P _{in} : 329W	T _a : 50°C
PF : >0.45	EFF : >91%

Dry, Damp & Wet Location

RoHS
COMPLIANT

Warning:

- This product is for use with LED module only.
- Be careful not to interchange AC input line and DC output line.
- Avoid direct sunlight and install in well ventilated area.

ISOLATION: 3.75 KV I/P-OP
SURGE: 6 KV L/E, 6KV L/N
PROTECTION: OTP, OVP, OCP, SCP

IP 66

SELV

IS 15885
(Part 2/Sec 13)

R-87000035
www.bis.gov.in

12V LED

RED +

25A LED

BLACK -

Product Data	
Full product code	9290 034 13606
Full product name	LED Driver 300W 12V 25A
Net weight per piece	0.71 Kg
Dimming	None (FIXED)
Ambient Temp. Range	-10C to +50C
AC Input Voltage (Performance range)	Typical 230V (Min- 150V , Max - 240V)
AC Input Voltage (Operating range)	Typical 240V (Min- 180V , Max - 305V)
Line Current	2.82A @ 240V
Line Frequency	50 Hz
Envir. Protection Rating	IP66
Life at Tc 70 degree C	50000 hrs (nom.)
Suitable For Outdoor Use	Yes
Tc - Max.	70°C
Max. Driver number on MCB 16A (Type B)	2(max)
Input Over Voltage	Can Survive input Voltage Stress of 320V for 48 hours Can Survive input Voltage Stress of 360V for 12 hours
Input Under Voltage Protection	Can Survive input Voltage Stress of 100V for 48 hours
Input Over Voltage Cut Off	Auto Shutdown at ≥325V and Auto Recovery at 300V - 315V
Input under voltage shutdown	Auto Shutdown at ≤ 120V and auto Recovery at >150V
EMI (CISPR15)	No
Output Current Tolerance	+/- 5% of I _{max}
Output Ripple Current	≤ 10% (ripple = pk / avg.)
THD Total	NA
P.F. at Max. Load	> 0.45
Isolation (Input - Output)	Basic Isolation
Protection	Short Circuit and Open Circuit Protection for LED + and LED
	Over temperature and Input over voltage protection



Ordering 12 NC	9290 0341 3606
Brand Name	PHILIPS
Description	LED Driver 300W 12V 25A
Model Number	C300C2500V012FNA1AO
Input Voltage	180- 305V
Input Frequency	50 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Approved

Installation & Application Notes :

Section I - Physical Characteristics

- 1.1 LED Driver shall be installed inside / outside an electrical enclosure.
- 1.2 Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher

Section II - Performance

- 2.1 LED Driver has a rated lifetime of 50,000 hours @ $T_c \leq 70^\circ\text{C}$
- 2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage
- 2.3 LED Driver maximum allowable case temperature is 70°C - see product label for measurement location
- 2.4 LED Driver complies with the requirements of IS 15885 (Part 2 / Sec 13)

ELECTRICAL RATINGS :

Model	Input, 50 Hz		Output (nominal)		
	V	A	V DC	A DC	Watts
LED Transformer 300W 25A	150- 240	2.82	12	25	300

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVES USE) :

Section III - Conditions of acceptability

When installed in the end-use equipment, the following are among the considerations to be made :

- 3.1 The equipment shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the ultimate application.
- 3.2 The driver is suitable for outdoor LED Lighting application.
- 3.3 The driver is suitable for use in Dry & Damp locations.
- 3.4 When the drivers are installed in the end-use application, the case temperature should not exceed the temperature limits specified in the following table:

Model	Input Voltage, Hz	Max Case @ T_C , $^\circ\text{C}$
LED Transformer 300W 25A	150 - 240 , 50	70



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 Address: Signify Innovations India Ltd
 9B, DLF 9th Floor
 DLF Cyber City, DLF Phase III
 Gurgaon 122002
 India

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