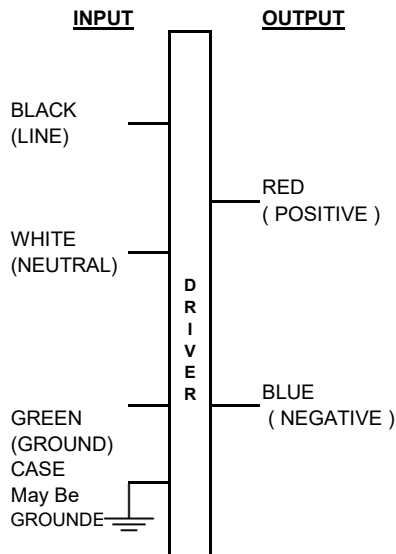




Ordering 12NC	9290 028 77006
Brand Name	CertaDrive
Description	CertaDrive 75W 0.7A
Model Number	C075C070V107FNY1AO
Input Voltage	240V
Input Frequency	50 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS certified

Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency at Max Load	Max Case Temp (°C)	Input Current (Arms)	Max Input Power (W)	Inrush Current (Apk/50%-µs)	THD @ Max Load (%)	Power Factor @Max Load	Surge Protection Com/Diff(KV)	Weight (Kg)	Envir. Protection Rating
75	60-107	0.7	240V	80	240V	84	240V	<10 @Max Load	> 0.95	5 / 5	0.7	Dry & Damp
			90%		0.35		10/100					

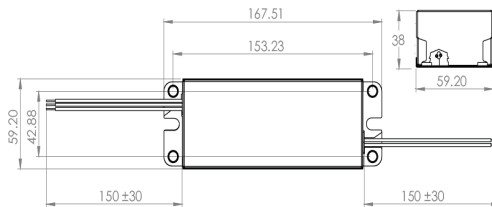
Wire Diagram



Input and output use lead-wires.
Lead-Wires 105C / 600V
16X0.2mm multi-strand, twisted & Tinned

Lead Length
Standard lead length is 150mm (±30mm)
on all wires outside the can


Enclosure



	(mm)
Case Length	168
Case Width	59
Case Height	38
Mounting Length	153
Mounting Width	42.9

PHILIPS

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LED Electronic Driver
Model No: C075C070V107FNY1AO

CertaDrive
75W 0.7A

U _{in}	240Vac
Freq	50Hz
I _{in}	0.35Aac
P _{in} Max.	84W
PF	0.95
iTHD	<10%
U _{out}	60 - 107Vdc
I _{out}	0.7Adc
P _{out}	75W
T _a	-10...+55°C

IS 15885
(Part 2/Sec 13)

R-85000434
www.bis.gov.in

RoHS
COMPLIANT

MADE IN INDIA

AC Mains

Ⓛ BLACK
Ⓝ WHITE
Ⓢ GREEN
CASE GND

MAX 80°C
T_c

LED
RED (+)
BLUE (-)

• Input Over Voltage Cutoff
• Input Under Voltage Cutoff
• Thermal Protection
• Short Circuit Protection
• Open Circuit Protection
• Auto Restart

U_{out} (max. open circuit) = 180Vdc
Input Operating Voltage Range = 100V-320V

Dry & Damp
location

Product Data	
Full product code	9290 028 77006
Full product name	CertaDrive 75W 0.7A
Net weight per piece	700 gms
Dimming	None
Ambient Temp. Range	-10°C to +55°C
Line Voltage (AC operation)	100V - 320V
Line Voltage (Performance)	240V +/-15%, CLO @ 140V-277V
Line Current	0.35A @ 240V
Line Frequency	50 Hz
Envir. Protection Rating	Dry and Damp , Potted LED Driver
Life at T _c 80 drgree C	50000 hrs (nom.)
Suitable For Outdoor Use	Yes
Max. T _c	80°C
Inrush Current	8 Apk @ 240V
Max. Driver number on MCB 16A (Type B)	45 (max.)
Input Over Voltage	Can Survive input Voltage Stress of 320V for 48 hours
Input Over Voltage Cut Off	Auto Shutdown at ≥325V and Auto Recovery at 300V - 315V
Input Over Voltage Protection	Can Survive input Voltage Stress of 440V for 8 hours
Input Under Voltage Protection	Can Survive input Voltage Stress of 100V for 48 hours
LED Current Tolerance	+/- 8% of I _{max}
Earth Leakage Current	0.7 mA (max)
THD Total	≤ 10% @ Full Load @ 240V Supply
P.F. at Max. Load	≥ 0.95
Isolation (Input - Output)	Basic Isolation
Protection	Short Circuit and Open Circuit Protection for LED + and LED -



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Status	BIS certified

Installation & Application Notes :

Section I - Physical Characteristics

- 1.1 LED Driver shall be installed inside 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 @ $T_c \leq 80^\circ\text{C}$
- 2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage
- 2.3 LED Driver maximum allowable case temperature is 80°C - see product label for measurement location
- 2.4 LED Driver has Thermal Fold Back or shutdown above T_{cmax} , please refer to the table for typical performance
- 2.5 LED Driver reduces output power to LEDs if its case temperature $> 85^\circ\text{C}$
- 2.6 LED Driver complies with the requirements of IS 15885 (Part 2 / Sec 13)

ELECTRICAL RATINGS :

Model	Input, 50/60 Hz		Output (nominal)		
	V	A	V DC	mA DC Max	Watts
CertaDrive 75W 0.7A	240	0.35	107	700	75

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 case must be grounded in the end-use application.
- 3.3 The driver is suitable for use in "Damp" and "Dry" 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 , $^\circ\text{C}$
CertaDrive 75W 0.7A	240 , 50/60	80

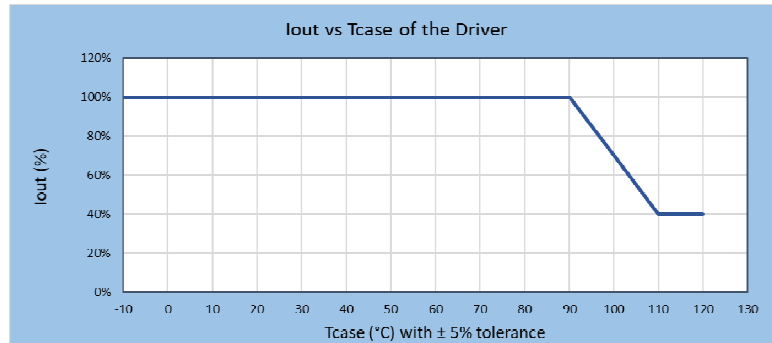
- 3.5 The leakage current test should be repeated in the end device.

Model	Input Voltage, Hz	Leakage Current
CertaDrive 75W 0.7A	240 , 50/60	0.7mA max.

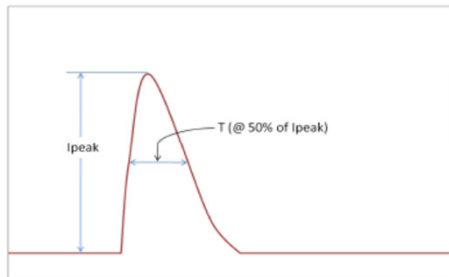


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Iout vs Tcase of the Driver

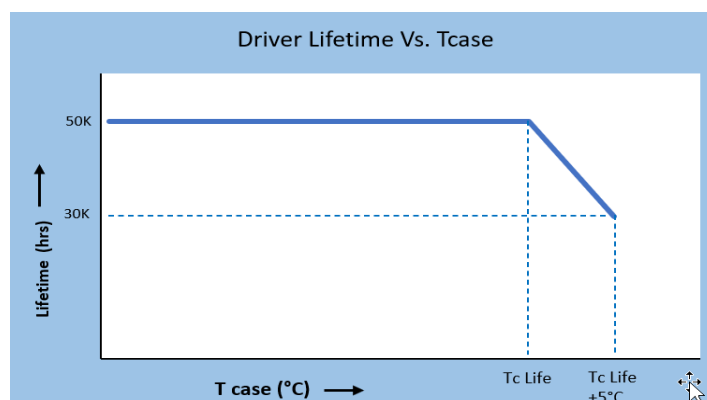


Inrush Current info :



Vin	Ipeak	T (@50% of Ipeak)
240 Vrms	8A	60 μ s

Lifetime vs Tcase of Driver :





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Input Frequency	50 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS certified

Isolation :

Isolation	Input Wires	Output Wires	Chassis
Input Wires	NA	1750 V	3750 V
Output Wires	1750 V	NA	3750 V
Chassis	3750 V	3750 V	NA



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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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