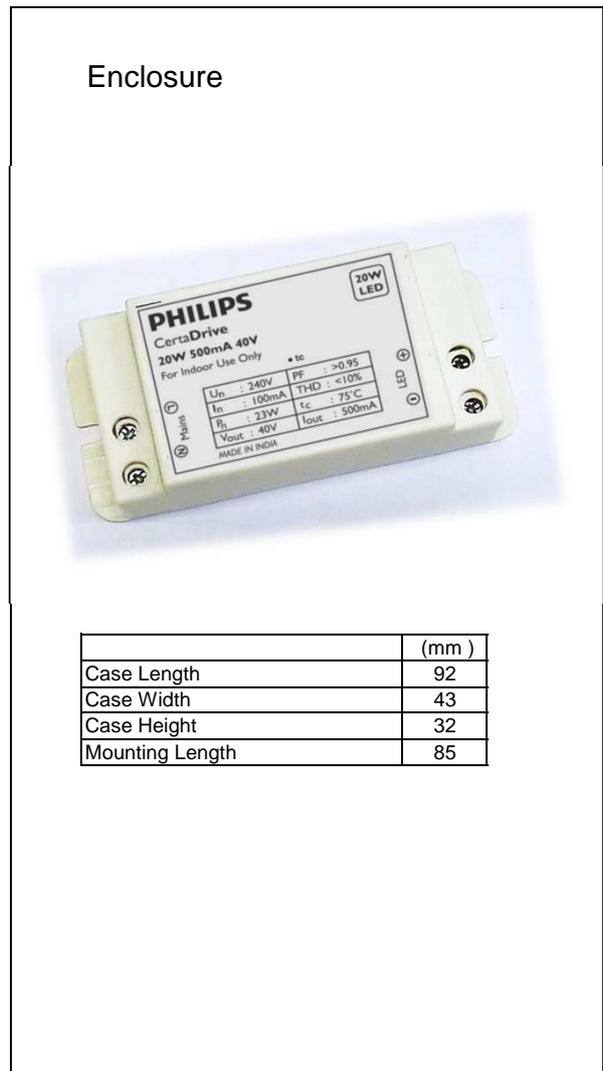
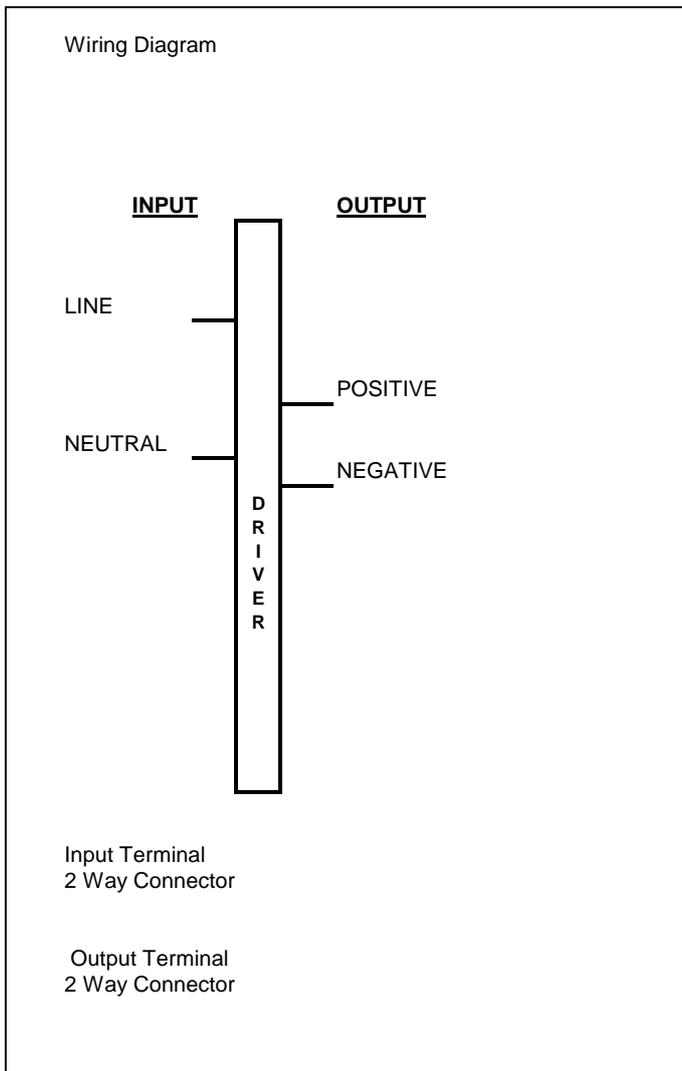


Ordering 12 NC	9290 015 05514
Brand Name	CertaDrive
Description	CertaDrive 20W 500mA 40V
Input Voltage	220 - 240V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Certified

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 Diff.(KV)	Weight (Kg)	Envir. Protection Rating
20	27 - 40	0.5	240V	75	240V	23	240V	≤ 10 @Max Load	≥ 0.95	2	0.1	IP 20
			86		0.10		7/300					



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PHILIPS CertaDrive 20W 500mA 40V For Indoor Use Only		<div style="border: 1px solid black; padding: 2px; display: inline-block;"> 20W LED </div>	
Ⓢ Mains Ⓢ	U _n : 240V	PF : >0.95	⊕ LED ⊖
	I _n : 100mA	THD : <10%	
	P _n : 23W	t _c : 75°C	
	V _{out} : 40V	I _{out} : 500mA	
MADE IN INDIA			

Product Data	
Full product code	9290 015 05514
Full product name	CertaDrive 20W 500mA 40V
Net weight per piece	100 gms
Dimming	None (FIXED)
Ambient Temp. Range	-10C to +50C
Line Voltage (AC Nominal)	220 - 240V +/-10%
Line Voltage (AC Performance Range)	140 - 277V
Line Current	0.10A @ 240V
Line Frequency	50 Hz
Envir. Protection Rating	IP 20
Life at Tc 65 drgree C	30000 hrs (nom.)
Suitable For Indoor Use	Yes
Tc - Max.	75°C
Inrush Current	7Apk @ 240V
Max. Driver number on MCB 16A (Type B)	24 (max.)
Input Over Voltage Protection	Shutdown at 300V ± 10V
LED Current Tolerance	+/- 5%of I _{max}
Output Current Ripple	≤ 65% (ripple = pk / avg.)
THD Total	≤ 10% @ Full Load @ 240V Supply
P.F. at Max. Load	≥ 0.95
Isolation (Input - Output)	3750V
Protection	Short Circuit and Open Circuit Protection for LED + and LED -
Standby Power	≤0.5W

Ordering 12 NC	9290 015 05514
Brand Name	CertaDrive
Description	CertaDrive 20W 500mA 40V
Input Voltage	220 - 240V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Certified

Installation & Application Notes :

Section I - Physical Characteristics

- 1.1 LED Driver shall be installed inside / outside an electrical enclosure for indoor application.
- 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 30,000 hours @ $T_c \leq 75^\circ\text{C}$
- 2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage
- 2.3 LED Driver maximum allowable case temperature is 75°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, 50/60 Hz		Output (nominal)		
	V	A	V DC	A DC	Watts
CertaDrive 20W 500mA 40V	220 - 240	0.1	40	0.5	20

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVES USE) :

Section III - Conditions of acceptability

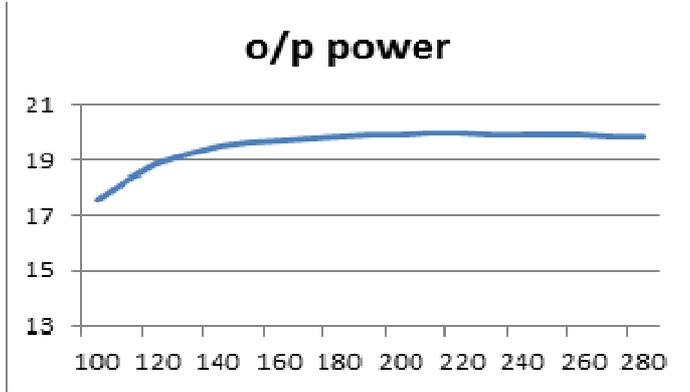
When installed in the end-use equipment, the following are among the considerations to be made :

- 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 indoor LED Lighting application.
- 3.3 The driver is suitable for use in 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:

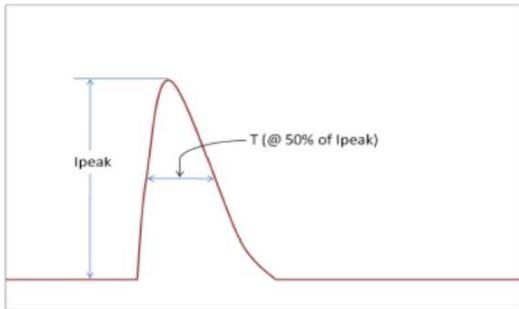
Model	Input Voltage, Hz	Max Case @ TC , °C
CertaDrive 20W 500mA 40V	220 - 240 , 50/60	75

Ordering 12 NC	9290 015 05514
Brand Name	CertaDrive
Description	CertaDrive 20W 500mA 40V
Input Voltage	220 - 240V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Certified

Output Power vs Input Voltage :

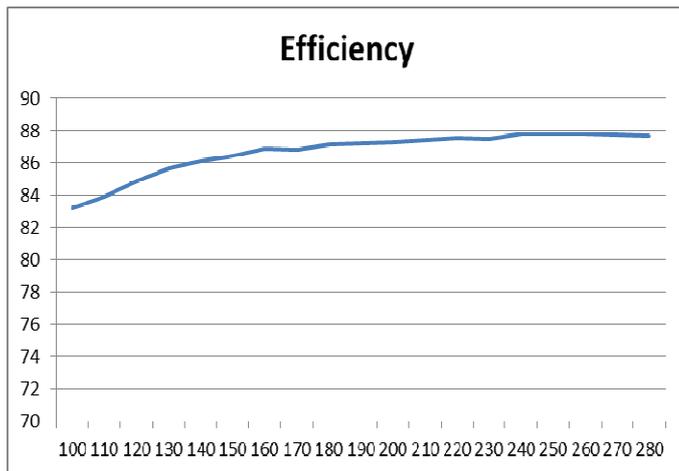


Inrush Current info :



Vin	Ipeak	T (@50% of Ipeak)
240 Vrms	7A	300 μ s

Efficiency vs Input Voltage :



Failure rate info based upon field called rate data:
 $\leq 0.33\%$ per 1K hour @ $T_c \leq 75^\circ\text{C}$