

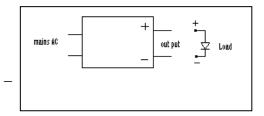
CertaDrive LED 20W 700mA 240V - For Indoor Applications

929000900214			
Brand Name	PHILIPS LED		
Description	CertaDrive LED Driver 20W 700mA 240V		
Input Voltage	140-280V		
Input Frequency	50/60 Hz		

Electrical Specifications

Input	Input	Output	Output	Max T	T ambient	Output	Max	Efficiency	Min	Ripple	Surge	IP	Application	Wt.
Voltage	Power	current	Voltage	Case	(Deg C)	Power	THD(%)•	%	Power	current	protection			(gm)
(V AC)	(W)	(mA)	(V DC)	(Deg C)		(Max)			Factor	Pk / Avg	(KV)			
220 - 240	23	700	20 - 30	75	-20 to +50	20	<u><</u> 10	85	0.94	45%	1.7	20	Indoor	95

Wiring Diagram LED Driver

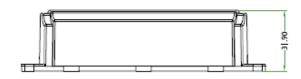


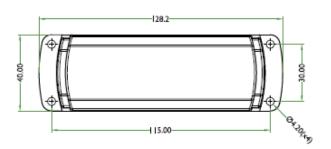
Features

Overvoltage Protection	Shutdown @ 300V		
Short circuit Protection	Yes		
Open circuit protection	Yes		
LED Reverse protection	Yes		
ROHS compliance	Yes		
Isolation between Input and output	3.7 KV		
Expected Life @ Tc 75	30000 hours (nominal)		
Mounting Foot Holes	115mm X 30mm		

Dimension Figures

Dimensions	128mmx40mmx32mm			
Fixing	Suitable for M4 Screws			
	Mains	2 wires		
Connector(Wire Assembly)	Output	2 wires		
	Black	Negative		
	Red	Positive		





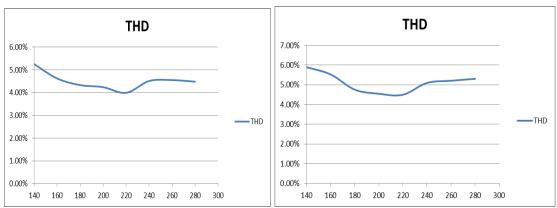


	CertaDriv	ve LED Driver 20W 700mA 240V				
	Voltage	220V ~ 280V (±10%)				
	Current	100mA max at 240V Full Load condition				
	Power	23W max (at full load) > 0.94 (140-280Vac), full Load				
	Power Factor					
Input:	Frequency THD	50/60 Hz (±10%) ≤ 10%				
	וחט	\$ 10%				
	Inrush current	16A , 1µS @ 50% Ipeak				
	0 "	0.14/2 (70) 1.0 1/2 470 1.1 1.1				
	Connection	2 Wire (Black & white,150 mm length each)				
	Current (nom, tol)	700mA dc $Tol = \pm 5\%$				
Output:	Min current (Nom)	665 mA				
Output.	Voltage (operation) Voltage (max)	20-30V 40V OCV max.				
	Power	20W max				
	Connection	2 Wire (Red & Black, 300mm each). positive- RED, Negative-BLACK				
	Connection	1.7KV, L - N				
Surge protection		No latch shutdown				
Efficiency		>85% @ full load				
Line Regulation		140V ~ 280V (±10%) over input voltage				
Load regulation		± 10% from minimum load to full load				
Output Ripple		45% pk / avg				
la alatian		(input to output = 3.7 KV 50/60Hz, 1 min Hi-pot withstand, All lead wires to housing =				
Isolation		2KV 50/60Hz/1 min)				
Temperature:	Tcase	ambient: -20°C to 50°C				
	1 2 2 2 2	Tcase max corresponding to 50°C amb = 75°C				
Protection:	Short Circuit	Yes				
	Overload	Yes				
	Over Voltage No-load	Yes @ 300V±10V (auto-recovery) Yes				
Protection:	NO-10au	165				
Fusing:	Primary	Fused				
	Socondary	Not required				
	Secondary	Not required Can survive Input Voltage stress of 320V for 48 hours				
Reliability		Can survive Input Voltage stress of 350V for 2 hours				
Safety:		As per IEC 61347-2-13				
Op. Environment:		ROHS compliant				
EMI:		CISPR15 Compliance				
Leakage current:		≤ 0.7 mApk				
Case Material:		Plastic Housing				
Life		30 K Hrs at Tcase = 75°C				
Failure rate		<= 0.1% per 1 kHr @ <= Tcase 75° C				
Packaging:		10 pcs. Per box				
Mounting:		Mounting screw M4 (4 nos.)				
Weight, dimensions		116 gms, 129x40x33 mm				
weight, diffiensions		Indoor, office Lighting				
Application		maoor, omoe Lighting				
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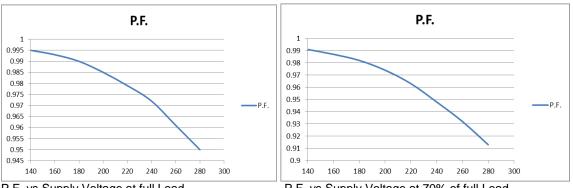
THD vs Supply Voltage variation at full Load and 70% of Full Load /min. Load.



THD vs Supply Voltage at full Load

THD vs Supply Voltage at 70% of full Load

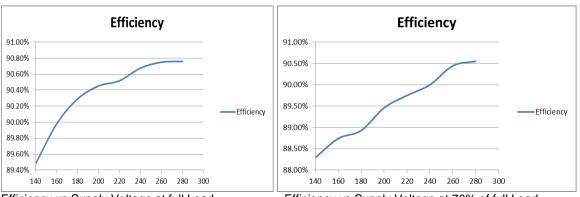
Power Factor vs Supply Voltage variation at full Load and 70% of Full Load/min. Load.



P.F. vs Supply Voltage at full Load

P.F. vs Supply Voltage at 70% of full Load

Efficiency vs Supply Voltage variation at full Load and 70% of Full Load/min. Load.



Efficiency vs Supply Voltage at full Load

Efficiency vs Supply Voltage at 70% of full Load