



# Electrical Specification for LNTC20WxxxLRP

Phase Dimmable LED Driver



Item	Value	Remark
Nominal voltage	220–240V	
Nominal frequency	50–60Hz	
AC voltage range	198–264V	
DC voltage range (start)	NA	
DC voltage range (operation)	NA	
Nominal current		
LNTC20W250LRP	90mA	
LNTC20W550LRP	100mA	
LNTC20W400LRP	105mA	
LNTC20W300/600LRP	110mA	
LNTC20W450LRP	115mA	
LNTC20W350LRP	125mA	
LNTC20W700LRP	130mA	
Total Harmonic Distortion (THD)	< 20%	Full load @230VAC
Power factor	0.9C	Full load @230VAC
Efficiency	83%(Typ.)	Full load @230VAC
No-load power	NA	
Stand-by power	NA	
Protection class	NA	
Inrush current	30 A / 40 μs	
Earth leakage current	NA	
Nominal voltage range		
LNTC20W250/300/350LRP	34-57Vdc	
LNTC20W400/450/500LRP	22-41Vdc	
LNTC20W550/600/700LRP	17-29Vdc	
Maximum voltage		
LNTC20W250/300/350LRP	63Vdc	
LNTC20W400/450/500LRP	50Vdc	
LNTC20W550/600/700LRP	35Vdc	

	Item	Value	Remark
	Nominal current range		
	LNTC20W250LRP	250mA	
	LNTC20W300LRP	300mA	
	LNTC20W350LRP	350mA	
	LNTC20W400LRP	400mA	
	LNTC20W450LRP	450mA	
	LNTC20W500LRP	500mA	
	LNTC20W550LRP	550mA	
	LNTC20W600LRP	600mA	
	LNTC20W700LRP	700mA	
Output	Current accuracy	± 5%	
	Typical output LF current ripple	± 5%	Low Frequency<120Hz Full load @230VAC
	Nominal power range		
	LNTC20W250LRP	8.5-14.2W	
	LNTC20W300LRP	10.2-17.1W	
	LNTC20W350LRP	11.9-19.9W	
	LNTC20W400LRP	8.8-16.4W	
	LNTC20W450LRP	9.9-18.4W	
	LNTC20W500LRP	11-20.5W	
	LNTC20W550LRP	9.4-15.9W	
	LNTC20W600LRP	10.2-17.4W	
	LNTC20W700LRP	11.9-20.3W	
	Maximum power	21W	
Dimming	Dimming control	Trailing Edge	
	Dimming technique	Amplitude	
	PWM frequency	NA	
	Dimming range	10-100%	
	Lowest dimming current	NA	
	Galvanic isolation	NA	
	Ambient temperature range $t_a$	-20°C...+50°C	
	Maximum case temperature $t_c$		
	LNTC20W250/300/350LRP	75°C	
	LNTC20W400/450/500LRP	75°C	
	LNTC20W550/600/700LRP	80°C	
Environment	Max. case temp. in fault condition	110°C	When operating under fault conditions, the temperature of the enclosure at any location should not exceed 110 °C
	Storage temperature range	-25°C...+85°C	
	Relative humidity	10%...85%	
	Surge transient protection	1KV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
Expected lifetime	> 50,000 h, $t_c$ 75 °C @ $t_a$ 50 °C > 80,000 h, $t_c$ 65 °C @ $t_a$ 40 °C	> 50,000 h, $t_c$ 80 °C @ $t_a$ 50 °C > 80,000 h, $t_c$ 70 °C @ $t_a$ 40 °C	0.2 % / 1,000 h failure rate 0.1 % / 1,000 h failure rate

<b>Packing</b>	Gross weight/Carton	7.4 Kg
	Net weight/Carton	6.0 Kg
	Pcs/Carton	80 PCS
	Dimension/Carton	415(L)*255(W)*240(H)mm

#### Protections

Short- & open circuit proof, Auto. overheat regulation or cut off, Overload protection

#### Conformity & Standards

Safety standard:	EN 61347-1, EN 61347-2-13, EN 62493
Performance:	EN 62384
EMC standard:	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547
SAA standard:	AS/NZS 61347.1, AS/NZS IEC 61347.2.13

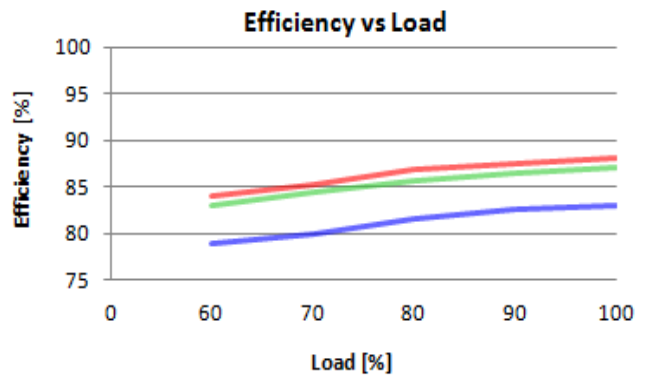
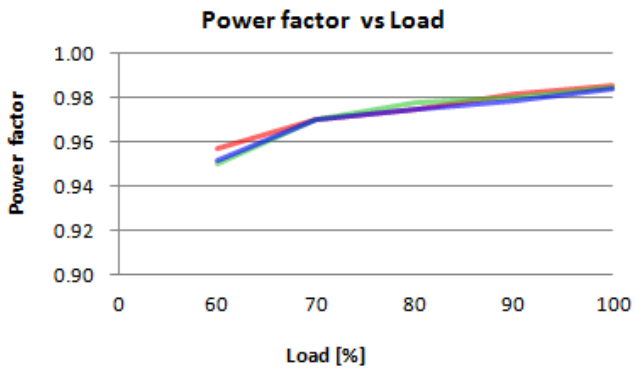
#### Cable information

<b>PRI</b> Connection	L	N
Color	Brown	Blue
Wire type	7022	7022
Wire diameter	AWG18	AWG18
Wire length	140mm	140mm
Stripping	6mm	6mm

<b>Sec</b> Connection	+	-
Color	Red	Black
Wire type	1332	1332
Wire diameter	AWG22	AWG22
Wire length	140mm	140mm
Strip length	6mm	6mm

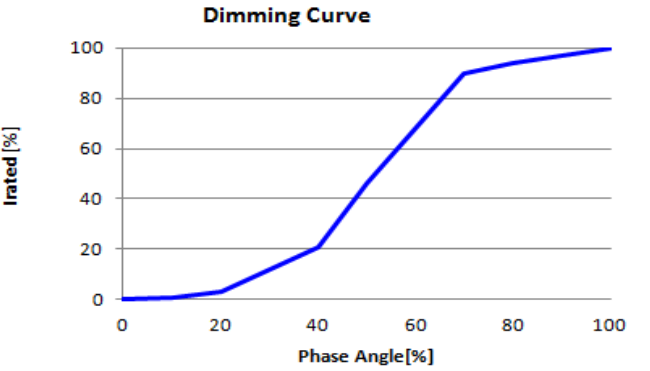
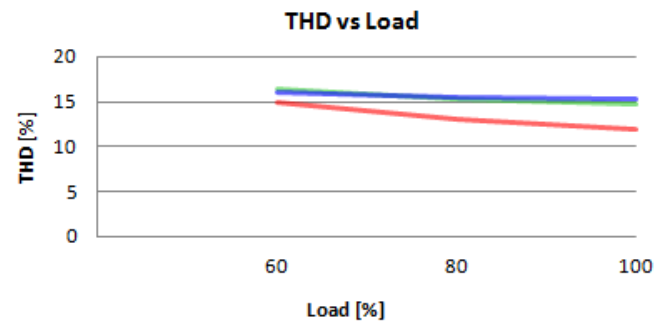
#### Trailing Edge Dimmer list approved by HEP

Manufacturer	Model	Q'ty of parallel connection	Min.load(W)
CLIPSAL	32E450TM	10	10W
Berker	2874	10	20W
Busch	6513U-102	10	40W
Busch	6519U	10	40W
ETMAN	321P	10	25W
HEP	DCT101	10	5W
HEP	DCT202	10	5W



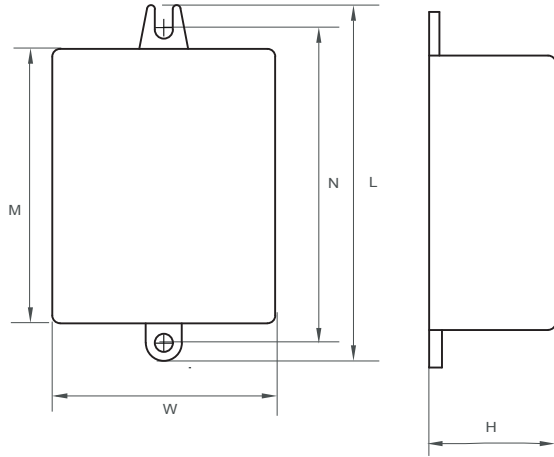
— 250/300/350 — 400/450/500 — 550/600/700

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### Physical Parameter



L : 78.3 mm    W: 43.5 mm  
M: 63 mm    H: 26 mm  
N : 71 mm

Tolerance : +/-1 mm , R : +/-0.5 mm

Housing Material : Polycarbonate / Potting

Soldering : Lead-Free, Comply With RoHS

Label : Surface Print

### Wiring Diagram

