



Approval Marks



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			
Input	LNTC20W250LRP	90mA	
	LNTC20W400LRP	105mA	
	LNTC20W300/600LRP	110mA	
	LNTC20W350LRP	125mA	
	LNTC20W500/700LRP	130mA	
	Total Harmonic Distortion (THD)	< 20%	Full load @230VAC
	Power factor	0.9C-0.97	Min-load @240Vac and Full-load @220 Vac
	Displacement factor	0.9C-0.97	Min-load @240Vac and Full-load @220 Vac
	Efficiency	83% (Typ.)	Full load @230VAC
	No-load power	NA	
Stand-by power		NA	
Protection class		NA	
Inrush current		6.5 A / 25 µs	
Max.units per circuit breaker		Type B , 10A MCB	31
		Type B , 16A MCB	49
		Type C , 10A MCB	38
		Type C , 16A MCB	62
Earth leakage current		NA	
Output	Nominal voltage range		
	LNTC20W250/300/350LRP	34-57Vdc	
	LNTC20W400/500LRP	22-41Vdc	
	LNTC20W600/700LRP	17-29Vdc	
	Maximum voltage		
	LNTC20W250/300/350LRP	65Vdc	
LNTC20W400/500LRP		52Vdc	

	Item	Value	Remark
	LNTC20W600/700LRP	37Vdc	
	Nominal current range		
	LNTC20W250LRP	250mA	
	LNTC20W300LRP	300mA	
	LNTC20W350LRP	350mA	
	LNTC20W400LRP	400mA	
	LNTC20W500LRP	500mA	
	LNTC20W600LRP	600mA	
	LNTC20W700LRP	700mA	
	Current accuracy	± 5%	Full load @230VAC
Output	Typical output LF current ripple	± 5%	Low Frequency<120Hz Full load @230VAC
	SVM	≤ 0.4	Full load @230VAC
	PstLM	≤ 1	Full load @230VAC
	Starting time	< 0.5 S	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	
	LNTC20W500LRP	11.0-20.5W	
	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	
Environment	Ambient temperature range t _a	-20°C - +50°C	
	Maximum case temperature t _c		
	LNTC20W250/300/350LRP	75°C	
	LNTC20W400/500LRP	75°C	
	LNTC20W600/700LRP	80°C	
	Max. case temp. in fault conditior	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	

	Item	Value	Remark
Environment	Expected lifetime		
	LNTC20W250/300/350LRP	Full load	> 50,000 h, tc 75 °C @ ta 50 °C 0.2 % / 1,000 h failure rate
	LNTC20W400/500LRP		
	LNTC20W600/700LRP	Full load	> 50,000 h, tc 80 °C @ ta 50 °C 0.2 % / 1,000 h failure rate
Packing	Gross weight/Carton	9.1 kg	
	Net weight/Carton	8 kg	
	Pcs/Carton	72 PCS	
	Dimension/Carton	415(L)*255(W)*240(H)mm	
Protections			
	Short-circuit Protection	Auto recovery	
	Open-circuit Protection	Auto recovery	
	Overload Protection	Auto recovery	
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			
PRI	Connection	L	N
	Color	Brown	Blue
	Wire type	7022	7022
	Wire diameter	AWG18	AWG18
	Wire length	140mm	140mm
	Stripping	6mm	6mm
	Tolerance	±5mm	±5mm
Sec	Connection	+	-
	Color	Red	Black
	Wire type	3385	3385
	Wire diameter	AWG22	AWG22
	Wire length	140mm	140mm
	Strip length	6mm	6mm
	Tolerance	±5mm	±5mm

* If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

Subject to change without notice, HEP guarantees all products perform functionally well

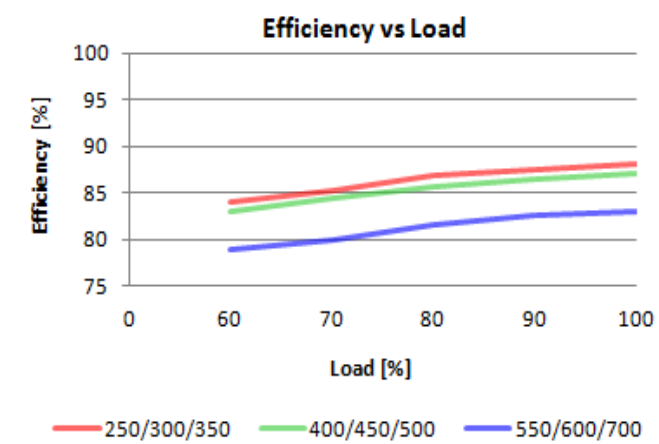
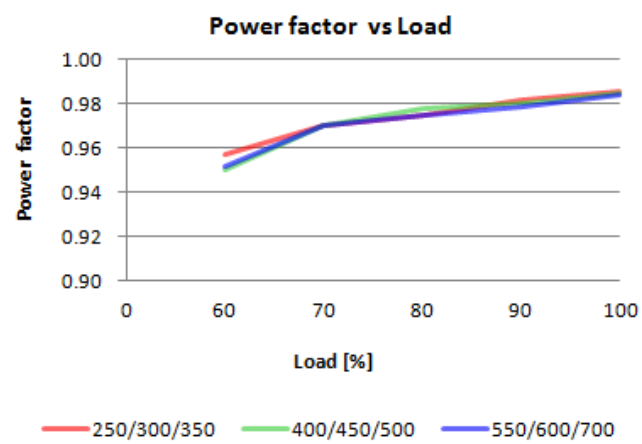
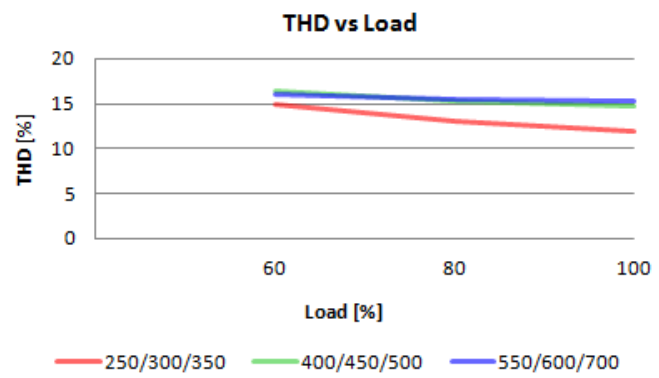
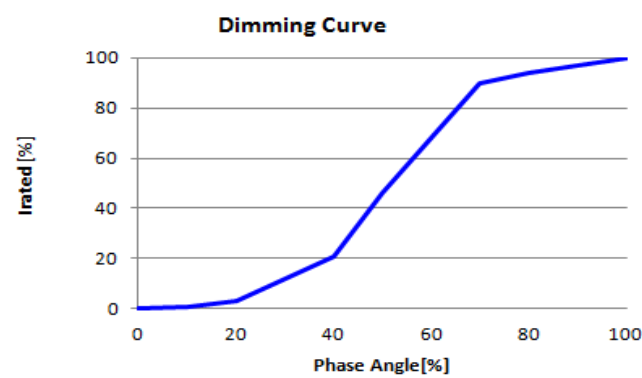
Trailing Edge Dimmer list approved by HEP

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
Busch	6523 UR-103	10	10W
Busch	6523 U-102	4	2W
Niko	310-0190X	8	5W
JUNG	LB-Management	4	20W
Merten	SBD200LED(MEG5134-0000)	8	4W

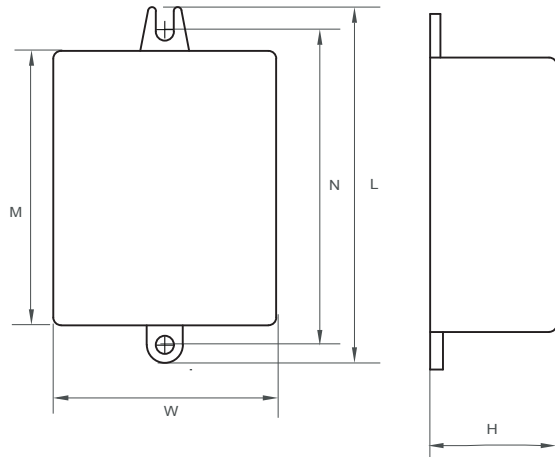
Potted situation

Situation	Model
Half-potted	LNTC600/700
Non-potted	LNTC250/300/350/400/500

Electrical Values



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

