



### Approval Marks



	Item	Value	Remark
Input	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		
	LNTC15W180LR	45mA	
	LNTC15W200LR	50mA	
	LNTC15W250LR	65mA	
	LNTC15W300LR	75mA	
	LNTC15W350LR	90mA	
	Total Harmonic Distortion (THD)	< 20%	Full load @230VAC
	Power factor	0.9C	Full load @230VAC
	Displacement factor	0.9C	Full load @230VAC
	Efficiency		
	LNTC15W180LR	80% (Typ.)	Full load @230VAC
	LNTC15W200LR	81% (Typ.)	Full load @230VAC
	LNTC15W250/300/350LR	82% (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		
Output	Nominal voltage range	30–40Vdc	
	Maximum voltage	50Vdc	
	Nominal current range		
	LNTC15W180LR	180mA	
	LNTC15W200LR	200mA	
	LNTC15W250LR	250mA	
	LNTC15W300LR	300mA	
	LNTC15W350LR	350mA	
Current accuracy			
LNTC15W180LR	± 11%		

	Item	Value	Remark
	LNTC15W200LR	± 10%	
	LNTC15W250/300LR	± 6%	
	LNTC15W350LR	± 5%	
	Typical output LF current ripple	± 5%	Low Frequency<120Hz Full load @230VAC
Output	Starting time	< 0.5 S	Full load @230VAC
	Nominal power range		
	LNTC15W180LR	5.4-7.2W	
	LNTC15W200LR	6-8W	
	LNTC15W250LR	7.5-10W	
	LNTC15W300LR	9-12W	
	LNTC15W350LR	10.5-14W	
	Maximum power	15W	
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 <sub>a</sub>	-20°C - +50°C	
	Maximum case temperature t <sub>c</sub>	65°C	
	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
Environment	Storage temperature range	-25°C - +85°C	
	Relative humidity	10% - 85%	
	Surge transient protection	1 kV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
	Expected lifetime	> 50,000 h, t <sub>c</sub> 65 °C @ t <sub>a</sub> 50 °C > 80,000 h, t <sub>c</sub> 55 °C @ t <sub>a</sub> 40 °C	0.2 % / 1,000 h failure rate 0.1 % / 1,000 h failure rate
Packing	Gross weight/Carton	9.1 kg	potting
	Net weight/Carton	8 kg	
	Pcs/Carton	72 PCS	
	Dimension/Carton	415(L)*255(W)*240(H)mm	
<b>Protections</b>			
Short- & open circuit proof, Overload protection			
<b>Conformity &amp; Standards</b>			
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		
CCC standard:	GB17625.1,GB/T17743,GB19510.1,GB19510.14		
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
Tolerance	±5mm	±5mm
<b>Sec</b> Connection	+	-
Color	Red	Black
Wire type	1332	1332
Wire diameter	AWG22	AWG22
Wire length	140mm	140mm
Strip length	6mm	6mm
Tolerance	±5mm	±5mm

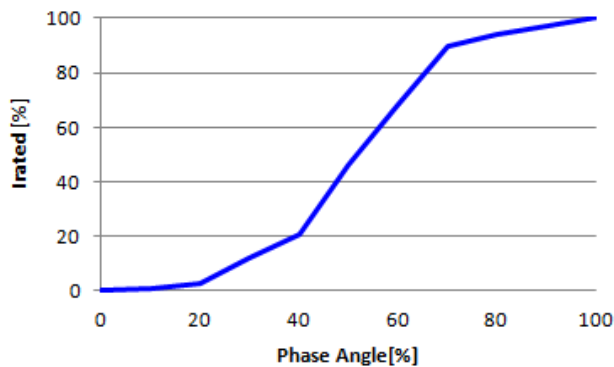
\*Subject to change without notice, HEP guarantees all products perform functionally well\*

## Trailing Edge Dimmer list approved by HEP

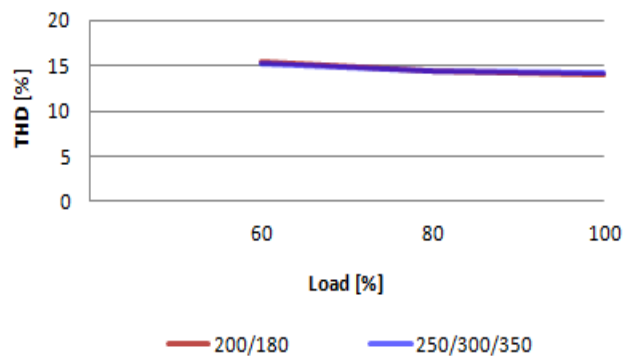
Manufacturer	Model	Q'ty of parallel connection	Min.load(W)
CLIPSAL	32E450TM	10	10W
Berker	2874	10	20W
Busch	6513U-102	10	40W
Busch	6519U	10	40W
ETMAN	321P	10	25W
HEP	DCT101	10	5W
HEP	DCT202	10	5W

## Electrical Values

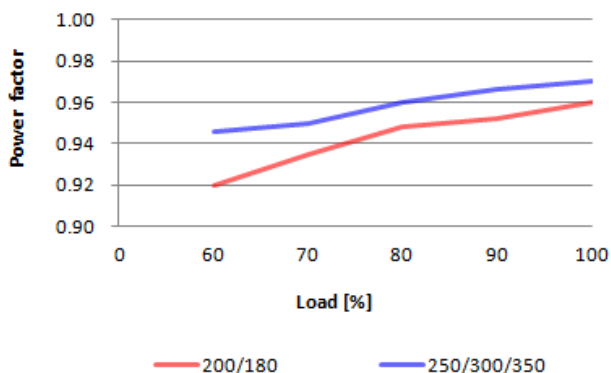
Dimming Curve



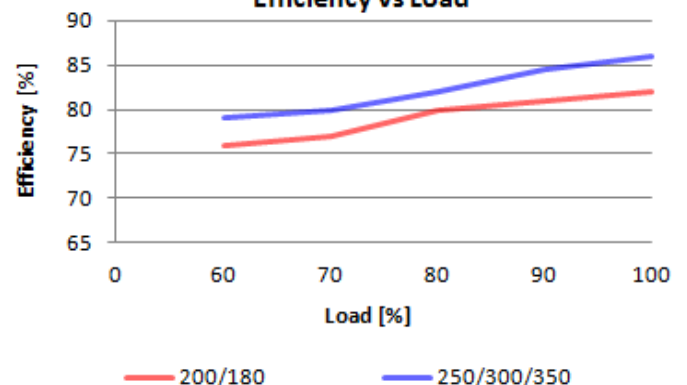
THD vs Load



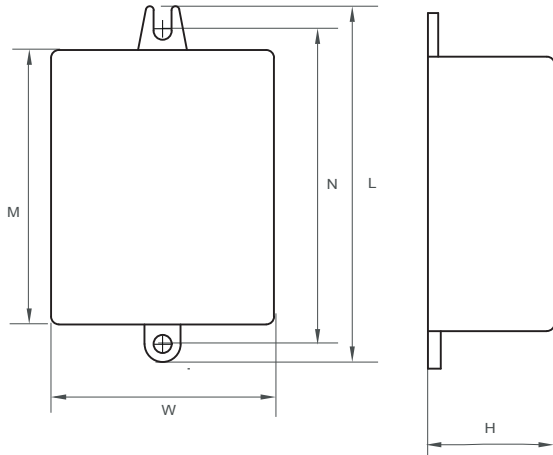
Power factor vs Load



Efficiency vs Load



## 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  
Soldering : Lead-Free, Comply With RoHS  
Label : Surface Print

## Wiring Diagram

