



LED Electrical Specification for LETC20WxxxLR-Z

Phase Dimmable LED Driver



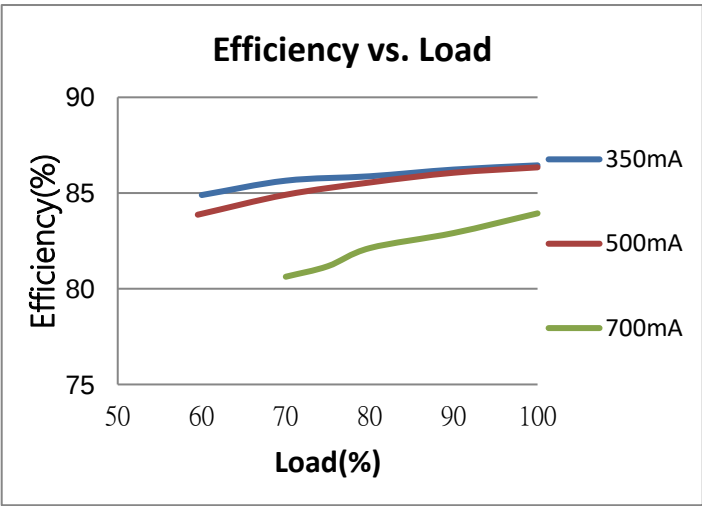
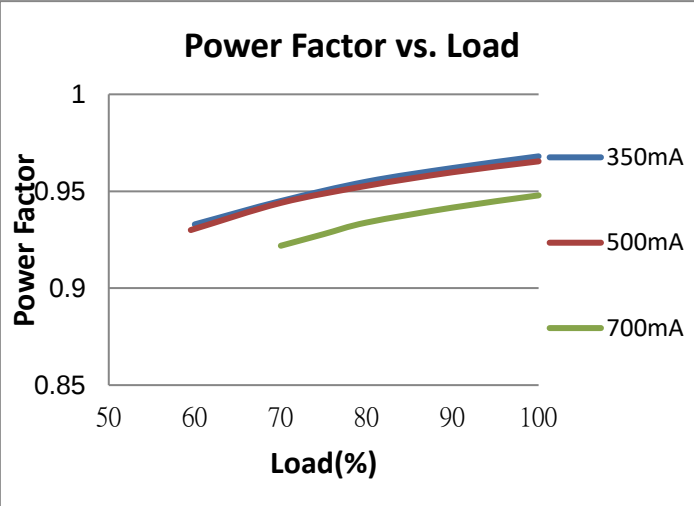
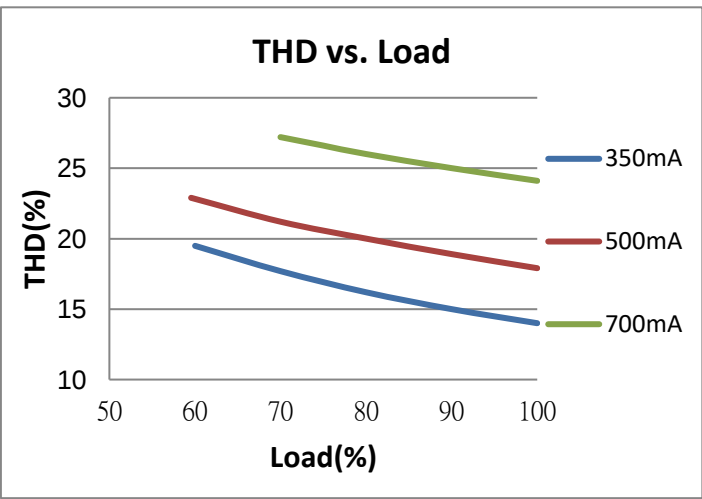
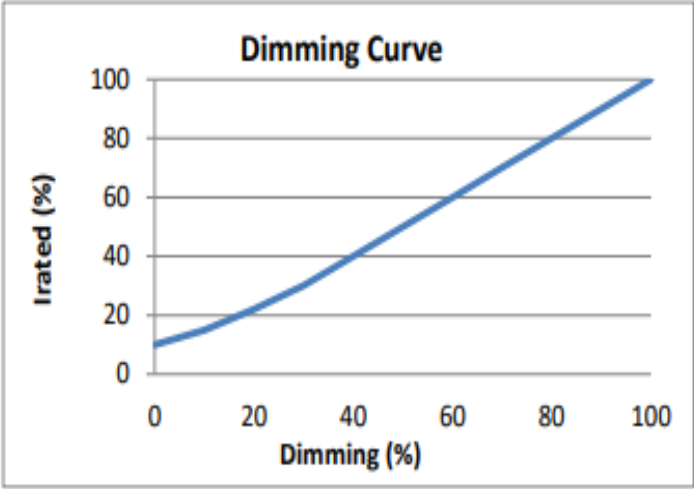
Item		Value	Remark
Nominal voltage		220-240V	
Nominal frequency		50-60Hz	
AC voltage range		198-264V	
DC voltage range (start)		NA	
DC voltage range (operation)		NA	
Nominal current			Full load @230VAC
Input	LETC20W350LR-Z	108mA	
	LETC20W500LR-Z	120mA	
	LETC20W700LR-Z	107mA	
	Total Harmonic Distortion (THD)	< 20%	Full load @230VAC
	LETC20W350/700LR-Z	< 25%	
	LETC20W500LR-Z	< 20%	
	Power factor	0.9C-0.96	Full load @230VAC
	Displacement factor	0.9C-0.96	Full load @230VAC
	Efficiency		Full load @230VAC
	LETC20W350LR-Z	86% (Typ.)	
	LETC20W500LR-Z	87% (Typ.)	
	LETC20W700LR-Z	84% (Typ.)	
	No-load power	NA	
	Stand-by power	NA	
	Protection class	II	Suitable for class I and II luminaires
	Inrush current		Full load @230VAC
	LETC20W350/700LR-Z	16A / 28us	
	Type B , 10A MCB	37	
	Type B , 16A MCB	59	
	Type C , 10A MCB	46	
Max.units per circuit breaker	Type C , 16A MCB	74	
	LETC20W500LR-Z	13.5A / 26us	
	Type B , 10A MCB	33	
	Type B , 16A MCB	53	
	Type C , 10A MCB	42	
Max.units per circuit breaker	Type C , 16A MCB	67	
Earth leakage current		NA	

Item		Value	Remark
Output	Nominal voltage range		
	LETC20W350LR-Z	32-54Vdc	
	LETC20W500LR-Z	25-42Vdc	
	LETC20W700LR-Z	18-26Vdc	
	Maximum voltage		
	LETC20W350LR-Z	64Vdc	
	LETC20W500LR-Z	53Vdc	
	LETC20W700LR-Z	35Vdc	
	Nominal current range		Full load @230VAC
	LETC20W350LR-Z	350mA	
	LETC20W500LR-Z	500mA	
	LETC20W700LR-Z	700mA	
	Maximum voltage	± 5%	Full load @230VAC
	Typical output LF current ripple		
	LETC20W350/700LR-Z	± 5%	
	LETC20W500LR-Z	± 4%	
	SVM	≤ 0.4	Full load @230VAC
	PstLM	≤ 1	Full load @230VAC
	Starting time	< 0.5 S	Full load @230VAC
	Nominal power range		
Dimming	LETC20W350LR-Z	11.2-18.9W	
	LETC20W500LR-Z	12.5-21W	
	LETC20W700LR-Z	12.6-18.2W	
	Maximum power		
	LETC20W350/700LR-Z	18.9W	
	LETC20W500LR-Z	21W	
	Dimming control		
	Trailing Edge		
	Dimming technique		
	Amplitude		
	PWM frequency		
	NA		
	Dimming range		
	LETC20W350/700LR-Z	5-100%	
	LETC20W500LR-Z	10-100%	
	Lowest dimming current		
	LETC20W350/700LR-Z	4-6%	
	LETC20W500LR-Z	0.22-6%	
	Galvanic isolation		
	NA		
Environment	Ambient temperature range t _a		-20°C - +45°C
	Maximum case temperature t _c		80°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
	Storage temperature range		
	-30°C - +80°C		
	Relative humidity		
	10% - 95%		
	Surge transient protection	1 kV , 2 kV	L-N , L/N-PE
	Environmental rating		
	Indoor		
	IP rating		
	IP20		
	Mains switching cycles		> 100,000

Item		Value	Remark
Environment	Expected lifetime		
	LETC20W350LR-Z	> 40,000 h, tc 80 °C @ ta 45 °C	0.25 % / 1,000 h failure rate
		> 80,000 h, tc 70 °C @ ta 35 °C	0.13 % / 1,000 h failure rate
	LETC20W500LR-Z	> 46,000 h, tc 80 °C @ ta 45 °C	0.2 % / 1,000 h failure rate
		> 100000 h, tc 70 °C @ ta 35 °C	0.1 % / 1,000 h failure rate
LETC20W700LR-Z	> 50,000 h, tc 80 °C @ ta 45 °C > 100,000 h, tc 70 °C @ ta 35 °C	0.2 % / 1,000 h failure rate 0.1 % / 1,000 h failure rate	
Packing	Gross weight/box	12.1 kg	
	Net weight/box	10.6 kg	
	Pcs/box	132 PCS	
	Dimension/box	490(L)*270(W)*225(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	
Cable information			
PRI Connection			
Cable cross-section		0.5-1.5mm²/AWG 20-16	
Stripping		9mm	
Pull test cable type		H03VV(H2)-F 2x0,75-1,0 mm²,H05VV(H2)-F 2x0,75 mm²	
SEC Connection (Red/Black)			
Cable cross-section		0.5-1.5mm²/AWG 20-16	
Stripping		9mm	
Terminal information			
PRI Push button/Angled Entry			
SEC Push button/Angled Entry (Red/Black)			
Subject to change without notice, HEP guarantees all products perform functionally well			
* If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).			

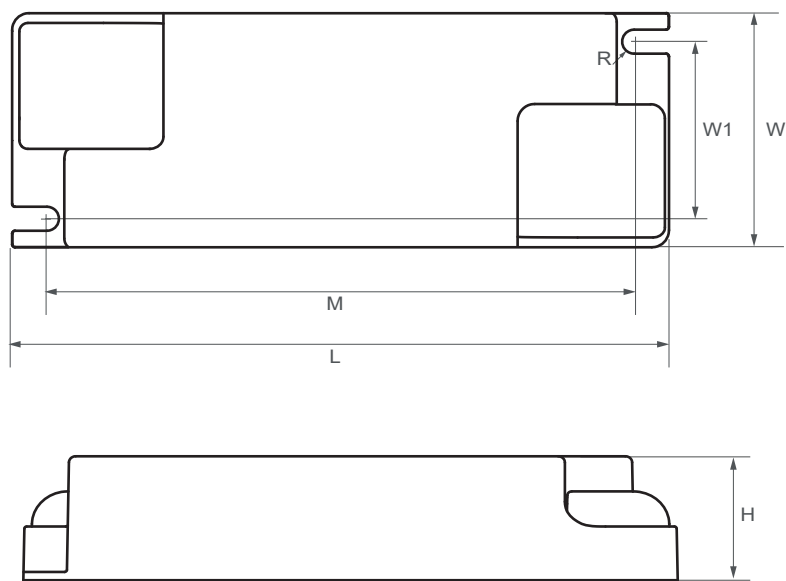
Trailing Edge Dimmer list approved by HEP

Manufacturer	Model	Q'ty of parallelconnection
Philips	SED-200A	8
Merten/Schneider	SBD315RC	12
Etman	ETM327	12
Etman	ETM329	12
Busch	6523 UR-103	14
Busch	6523 U-102	14
Niko	310-0190X	7
JUNG	LB-Management	3
Merten	SBD200LED(MEG5134-0000)	7
AU	P3	8
CASAMBI	CBU-TED	6



Physical

Parameter



L : 115 mm W : 41 mm H : 25 mm
M 102.8 mm W1: 31 mm R : 2.1 mm

Slot On One Side Allowing Alignment : M+/-3 mm
Tolerance : +/-1 mm , R : +/-0.5 mm
Housing Material : Polycarbonate
Soldering : Lead-Free, Comply With RoHS
Label : Surface Print

Wiring Diagram

