Electrical Specification for **LSC7WxxxLRP**

Constant current LED Driver

Approval Marks

GMA-511283

	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	45mA	Full load @230VAC
	Total Harmonic Distortion (THD)	< 25%	Full load @230VAC
	Power factor		Full load @230VAC
	LSC7W150LRP LSC7W250LRP	0.9C–0.95	
	LSC7W200LRP LSC7W350LRP LSC7W630LRP LSC7W700LRP	0.85C–0.95	
	LSC7W300LRP LSC7W500LRP	0.8–0.9C	
	Displacement factor		Full load @230VAC
	LSC7W150LRP LSC7W250LRP	0.9C–0.95	
	LSC7W200LRP LSC7W350LRP LSC7W630LRP LSC7W700LRP	0.85C–0.95	
	LSC7W300LRP LSC7W500LRP	0.8–0.9C	
	Efficiency		Full load @230VAC
	LSC7W150LRP	79% (Typ.)	
	LSC7W200LRP	79% (Typ.)	
	LSC7W250LRP	75% (Typ.)	
	LSC7W300LRP	77% (Typ.)	
	LSC7W350LRP	77% (Typ.)	
	LSC7W500LRP	74% (Typ.)	
	LSC7W630LRP	73% (Typ.)	
	LSC7W700LRP	72% (Typ.)	

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	Item		Value	Remark
Input	No-load power		NA	
	Stand-by power		NA	
	Protection class		NA	
	Inrush current		15 A / 30 us	
	Max.units per circuit breaker	Type B , 10A MCB	67	
		Type B , 16A MCB	107	
		Type C , 10A MCB	83	
		Type C , 16A MCB	133	
	Earth leakage current		NA	
Output	Nominal voltage range			
	LSC7W150LRP		25–42Vdc	
	LSC7W200LRP		20–36Vdc	
	LSC7W250LRP		16–24Vdc	
	LSC7W300LRP		12–21Vdc	
	LSC7W350LRP		12–21Vdc	
	LSC7W500LRP		6.5–13Vdc	
	LSC7W630LRP		6–11.5Vdc	
	LSC7W700LRP		6–10Vdc	
	Maximum voltage			
	LSC7W150LRP		50Vdc	
	LSC7W200LRP		45Vdc	
	LSC7W250LRP		30Vdc	
	LSC7W300LRP		27Vdc	
	LSC7W350LRP		27Vdc	
	LSC7W500LRP		18Vdc	
	LSC7W630LRP		18Vdc	
	LSC7W700LRP		18Vdc	
	Nominal current range			
	LSC7W150LRP		150mA	
	LSC7W200LRP		200mA	
	LSC7W250LRP		250mA	
	LSC7W300LRP		300mA	
	LSC7W350LRP		350mA	
	LSC7W500LRP		500mA	
	LSC7W630LRP		630mA	
	LSC7W700LRP		700mA	
	Current accuracy			Full load @230VAC
	LSC7W200/150LRP		± 7%	
	LSC7W300/250LRP		± 6%	
	LSC7W350/500/630/700LRP		± 5%	
	Typical output LF current ripple			Low Frequency< 120Hz Full load @230VAC
	LSC7W150LRP		± 5%	
	LSC7W200LRP		± 9%	
	LSC7W250/300LRP		± 4%	
	LSC7W350/500/630/700LRP		± 3%	

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	Item	Value	Remark
Output	SVM	≦0.4	Full load @230VAC
	$P_{st}LM$	≦1	Full load @230VAC
	Starting time	< 0.5 S	Full load @230VAC
	Nominal power range		
	LSC7W150LRP	3.8-6.3W	
	LSC7W200LRP	4.0-7.2W	
	LSC7W250LRP	4.0-6.0W	
	LSC7W300LRP	3.6-6.3W	
	LSC7W350LRP	4.2-7.3W	
	LSC7W500LRP	3.3-6.5W	
	LSC7W630LRP	3.8-7.2W	
	LSC7W700LRP	4.2-7.0W	
	Maximum power	7W	
Dimming	Dimming control	NA	
	Dimming technique	NA	
	PWM frequency	NA	
	Dimming range	NA	
	Lowest dimming current	NA	
	Galvanic isolation	NA	
Environment	Ambient temperature range t_a	-20°C - +50°C	
	Maximum case temperature t_c		
	LSC7W150/200/250/300LRP LSC7W350/500/630LRP	85°C	
	LSC7W700LRP	90°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	-40°C - +90°C	
	Relative humidity	10% - 90%	
	Surge transient protection	1 kV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
	Expected lifetime		
	LSC7W150/200/250/300LRP LSC7W350/500/630LRP		
	Full Load	> 50,000 h, tc 85 °C @ ta 50 °C	0.2% / 1,000 h failure rate
	Output load ≦ 5W	> 47,000 h, tc 85 °C @ ta 60 °C	0.2% / 1,000 h failure rate
	LSC7W700LRP		
	Full Load	> 50,000 h, tc 90 °C @ ta 50 °C	0.2% / 1,000 h failure rate
	Output load ≦ 5W	> 47,000 h, tc 90 °C @ ta 60 °C	0.2% / 1,000 h failure rate
Packing	Gross weight/box	4.3 kg	
	Net weight/box	3.5 kg	
	Pcs/box	100 PCS	
	Dimension/box	240(L)*190(W)*185(H)mm	
Protections			
Short-circuit Protection		Auto recovery	
Open-circuit Protection		Auto recovery	
Overload Protection		Auto recovery	

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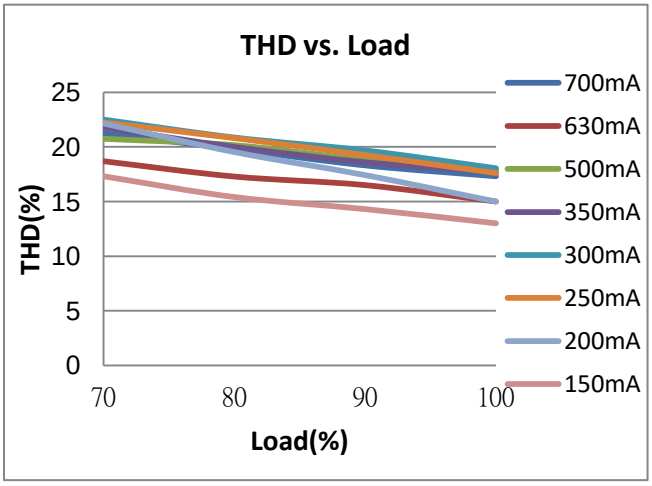
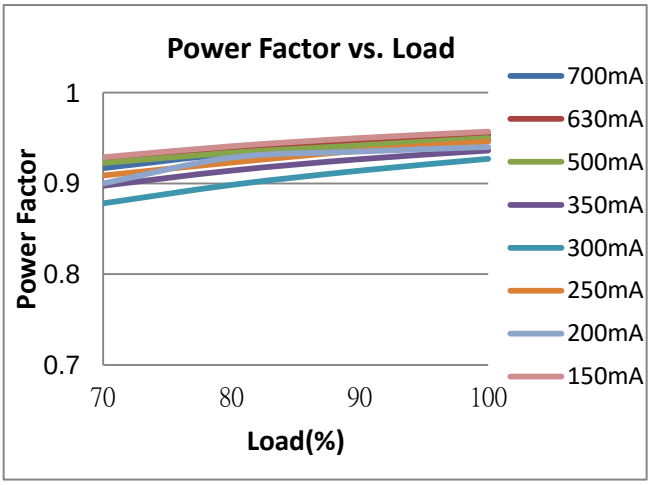
Conformity & Standards		
Safety standard:	EN 61347-1, EN 61347-2-13, EN 62493	
Performance:	EN 62384	
EMC standard:	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547	
Cable information		
PRI Connection	L	N
Color	Brown	Blue
Wire type	7022	7022
Wire diameter	AWG18	AWG18
Wire length	144mm	145mm
Stripping	6mm	6mm
Tolerance	±5mm	±5mm
Sec Connection	+	-
Color	Red	Black
Wire type	1332	1332
Wire diameter	AWG22	AWG22
Wire length	145mm	145mm
Strip length	6mm	6mm
Tolerance	±5mm	±5mm

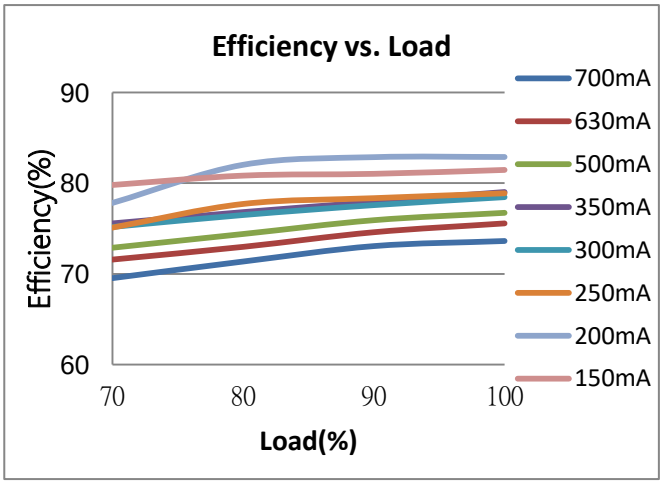
Subject to change without notice, HEP guarantees all products perform functionally well

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

Electrical Values







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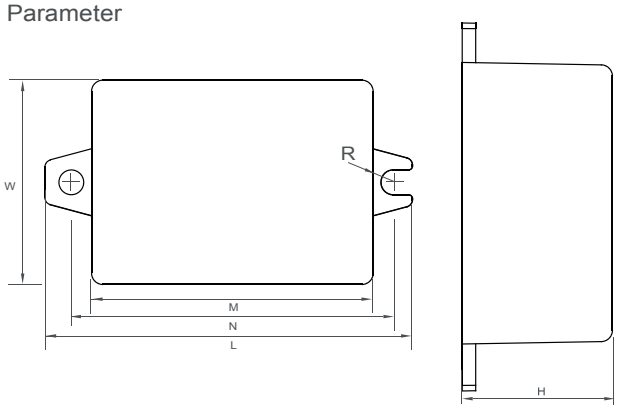
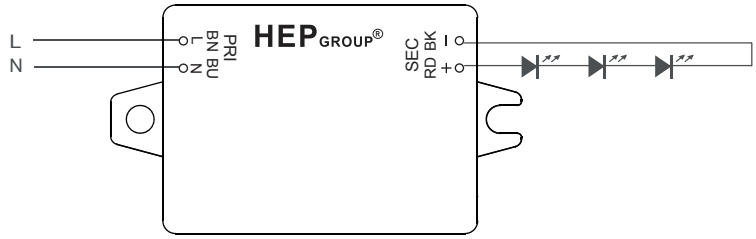
Physical

Parameter



L :	49 mm	H :	20 mm
M :	37.5 mm	N :	42.9 mm
W :	27.2 mm	R :	1.65 mm

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

Housing Material	Polycarbonate/ Potting
Soldering	Lead-Free, Comply With RoHS
Label	Surface Print

Wiring Diagram