Electrical Specification for **LSC20WxxxLRP UNI**

Constant current LED Driver

Approval Marks

GMA-510127

	Item	Value	Remark
Input	Nominal voltage	100 - 277 V	
	Nominal frequency	50 - 60 Hz	
	AC voltage range	100 - 305 V	
	DC voltage range (start)	NA	
	DC voltage range (operation)	NA	
	Nominal current		Full load @100/230VAC
	LSC20W250LRP UNI	200 / 95 mA	
	LSC20W350LRP UNI	260 / 120 mA	
	LSC20W500LRP UNI	300 / 140 mA	
	LSC20W700LRP UNI	280 / 130 mA	
	Total Harmonic Distortion (THD)	< 20%	Full load @100/230VAC
	Power factor		Full load @100/230VAC
	LSC20W250LRP UNI	0.75 C - 0.99	
	LSC20W350LRP UNI	0.79 C - 0.99	
	LSC20W500LRP UNI	0.73 C - 0.99	
	LSC20W700LRP UNI	0.74 C - 0.99	
	Displacement factor		Full load @120/230VAC
	LSC20W250LRP UNI	0.75 C - 0.99	
	LSC20W350LRP UNI	0.79 C - 0.99	
	LSC20W500LRP UNI	0.73 C - 0.99	
	LSC20W700LRP UNI	0.74 C - 0.99	
	Efficiency	83 %(Typ.)	Full load @230VAC
	No-load power	NA	
	Stand-by power	NA	
	Protection class	NA	
	Inrush current	17 A / 35 us	
	Max.units per circuit breaker	Type B , 10A MCB: 13	
		Type B , 16A MCB: 21	
		Type C , 10A MCB: 17	
		Type C , 16A MCB: 27	
	Earth leakage current	NA	
Output	Nominal voltage range		
	LSC20W250LRP UNI	32 - 55 Vdc	
	LSC20W350LRP UNI	32 - 55 Vdc	

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	Item	Value	Remark
Output	LSC20W500LRP UNI	24 - 45 Vdc	
	LSC20W700LRP UNI	15 - 28 Vdc	
	Maximum voltage		
	LSC20W250LRP UNI	65 Vdc	
	LSC20W350LRP UNI	65 Vdc	
	LSC20W500LRP UNI	55 Vdc	
	LSC20W700LRP UNI	40 Vdc	
	Nominal current range		
	LSC20W250LRP UNI	250 mA	
	LSC20W350LRP UNI	350 mA	
	LSC20W500LRP UNI	500 mA	
	LSC20W700LRP UNI	700 mA	
	Current accuracy		Full load @100/230VAC
	LSC20W250/350LRP UNI	± 7 %	
	LSC20W500/700LRP UNI	± 5 %	
	Typical output LF current ripple	± 5 %	Low Frequency< 120Hz Full load @100/230VAC
	Starting time	< 0.5 S	Full load @230VAC
		< 1.3 S	Full load @100VAC
	SVM	≦ 0.4	Full load @230VAC
	$P_{st}LM$	≦ 1	Full load @230VAC
	Nominal power range		
	LSC20W250LRP UNI	8.0 - 13.7 W	
	LSC20W350LRP UNI	11.2 - 19.2 W	
	LSC20W500LRP UNI	12.0 - 22.5 W	
	LSC20W700LRP UNI	10.5 - 19.6 W	
	Maximum power	22.5 W	
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		
	LSC20W250LRP UNI	80 °C	
	LSC20W350LRP UNI	85 °C	
	LSC20W500LRP UNI	85 °C	
	LSC20W700LRP UNI	85 °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 - + 85 °C	
	Relative humidity	10 % - 90 %	
	Surge transient protection	1 kV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	

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	Item	Value	Remark
Environment	Expected lifetime		
	LSC20W250LRP UNI		
	Full load	> 50,000 h , tc 80 °C @ ta 50 °C	0.2 % / 1,000 h failure rate
	Output load ≦9.6W	> 44,000 h , tc 80 °C @ ta 60 °C	0.23 % / 1,000 h failure rate
	LSC20W350/500/700LRP UNI		
	Full load	> 50,000 h , tc 85 °C @ ta 50 °C	0.2 % / 1,000 h failure rate
	Output load ≦15.8W	> 44,000 h , tc 85 °C @ ta 60 °C	0.23 % / 1,000 h failure rate
Packing	Gross weight/Carton	12 kg	
	Net weight/Carton	10.8 kg	
	Pcs/Carton	108 PCS	
	Dimension/Carton	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
SAA standard:	AS/NZS 61347.1, AS/NZS IEC 61347.2.13
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	AWG 18	AWG 18
	Wire length	233 mm	241 mm
	Stripping	6 mm	6 mm
	Tolerance	± 5 mm	± 5 mm
Sec	Connection	+	-
	Color	Red	Black
	Wire type	1332	1332
	Wire diameter	AWG 22	AWG 22
	Wire length	181 mm	181 mm
	Strip length	10 mm	10 mm
	Tolerance	± 5 mm	± 5 mm

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 100/230VAC input (for 100-277 VAC input).

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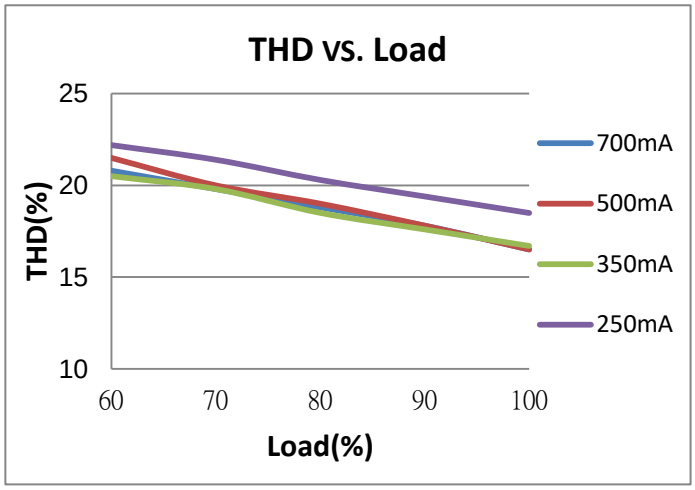
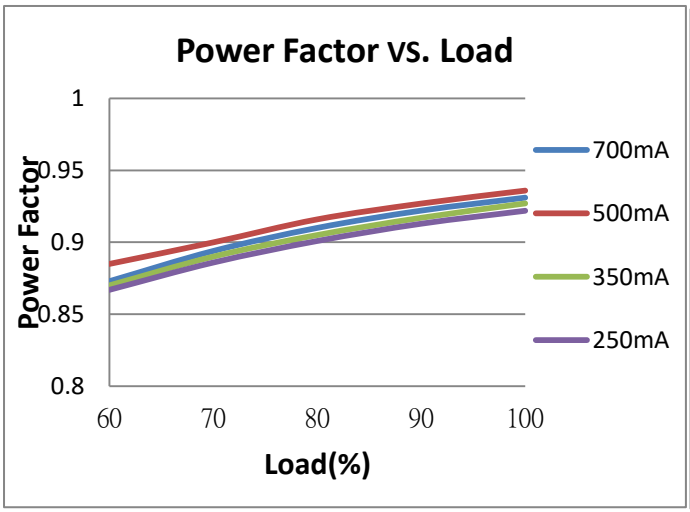
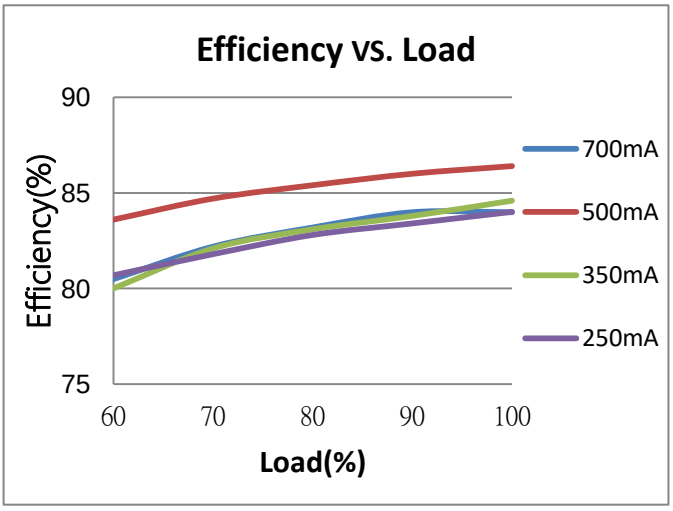
Electrical Values







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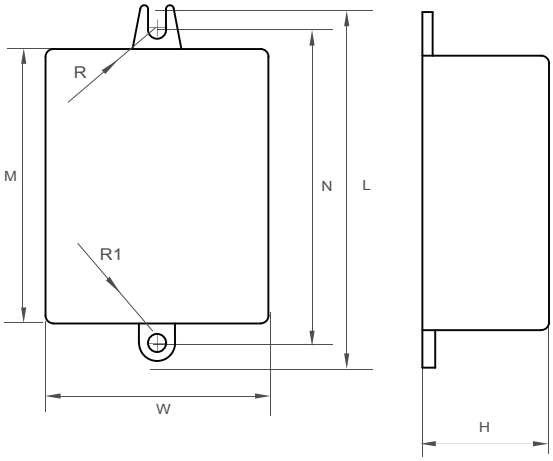
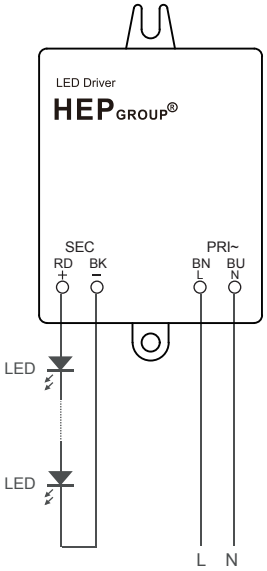
Physical
Parameter



L :	69.3	mm	W :	43.5	mm	R1 :	Φ3.5 mm
M :	53.5	mm	H :	24.6	mm		
N :	61	mm	R :	1.75	mm		

Tolerance : ≥ +/-1 mm

Housing Material ： Polycarbonate / Full Potting

Wiring Diagram