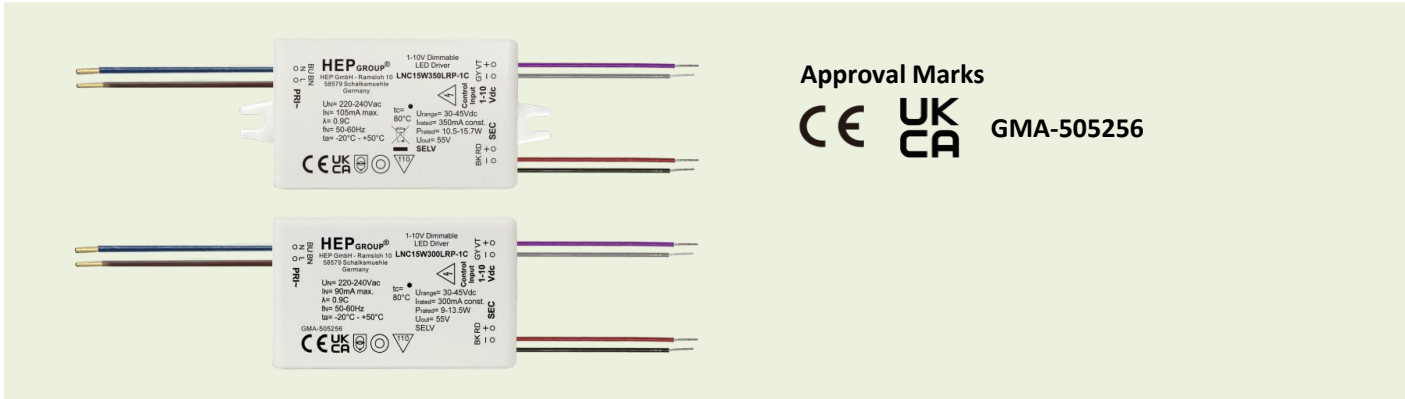




LED Electrical Specification for **LNC15WxxxLRP-1C**

1-10V Dimmable LED Driver



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		
	LNC15W350LRP-1C	105mA	
	LNC15W300LRP-1C	90mA	
	LNC15W250LRP-1C	80mA	
	LNC15W200LRP-1C	75mA	
	LNC15W180LRP-1C	70mA	
	Total Harmonic Distortion (THD)	< 25%	Full load @ 230VAC
	Power factor	0.9C	Full load @ 230VAC
	Displacement factor	0.9C	Full load @ 230VAC
	Efficiency		
	LNC15W350/300/250LRP-1C	80% (Typ.)	Full load @ 230VAC
	LNC15W200/180LRP-1C	78% (Typ.)	Full load @ 230VAC
	No-load power	NA	
	Stand-by power	<0.5W	
Output	Protection class	NA	
	Inrush current	1.84A / 26.2μs	
	Max.units per circuit breaker	Type B , 10A MCB	38
		Type B , 16A MCB	61
		Type C , 10A MCB	48
		Type C , 16A MCB	76
	Earth leakage current	NA	
	Nominal voltage range	30-45 Vdc	
	Maximum voltage	55 Vdc	
	Nominal current range		
	LNC15W350LRP-1C	350mA	
	LNC15W300LRP-1C	300mA	
	LNC15W250LRP-1C	250mA	
	LNC15W200LRP-1C	200mA	
	LNC15W180LRP-1C	180mA	

Item		Value	Remark
Output	Current accuracy		Full load @ 230VAC
	LNC15W350/300LRP-1C	± 5%	
	LNC15W250/200/180LRP-1C	± 8%	
	Typical output LF current ripple	± 6%	Low Frequency<120Hz Full load @ 230VAC (Peak to Peak)
	Starting time	< 0.5 S	Full load @230VAC
	Nominal power range		
	LNC15W350LRP-1C	10.5-15.7W	
	LNC15W300LRP-1C	9.0-13.5W	
	LNC15W250LRP-1C	7.5-11.2W	
	LNC15W200LRP-1C	6.0-9.0W	
LNC15W180LRP-1C	5.4-8.1W		
Maximum power		15W	
Dimming	Dimming control	0/1-10V	0V:Dimming Port Short
	Dimming technique	Amplitude	
	PWM frequency	NA	
	Dimming range	5-100%	
	Lowest dimming current	4-8%	1V : Full load @ 230VAC When dimming under 1V, the output current won't be defined.
	Galvanic isolation	Basic insulated to PRI and supplementary insulated to SEC	
Environment	Ambient temperature range t _a	-20°C - +50°C	
	Maximum case temperature t _c	80°C	ta = 50 °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% - 95%	
	Surge transient protection	1 kV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
	Expected lifetime	> 50,000 h, tc 80 °C @ ta 50 °C > 100000 h, tc 70 °C @ ta 40 °C	0.2 % / 1,000 h failure rate @ tc 80 °C 0.1 % / 1,000 h failure rate @ tc 70 °C
Packing	Gross weight/Carton	12.3 kg	
	Net weight/Carton	11 kg	
	Pcs/Carton	72 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	
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	130mm	128mm
Stripping	6mm	6mm
Tolerance	±5mm	±5mm

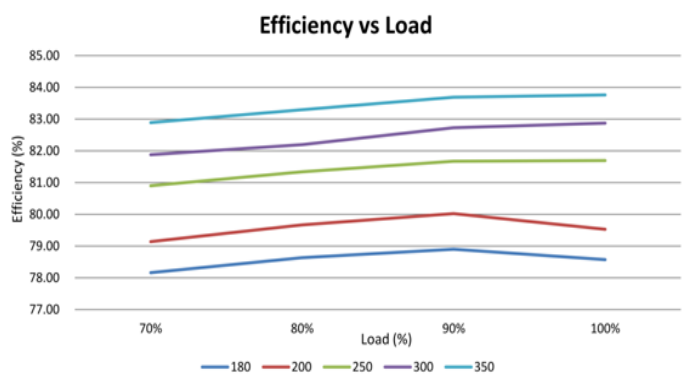
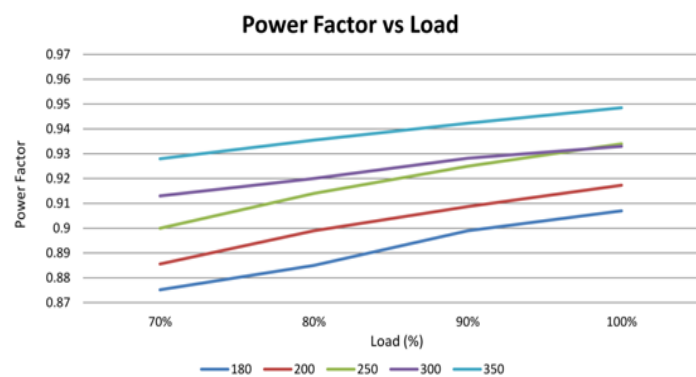
Sec Connection	+	-
Color	Red	Black
Wire type	3385	3385
Wire diameter	AWG22	AWG22
Wire length	141mm	138mm
Strip length	10mm	10mm
Tolerance	±5mm	±5mm

Control Input 1-10V	+	-
Color	Purple	Gray
Wire type	1332	1332
Wire diameter	AWG22	AWG22
Wire length	126mm	126mm
Stripping	10mm	10mm
Tolerance	±5mm	±5mm

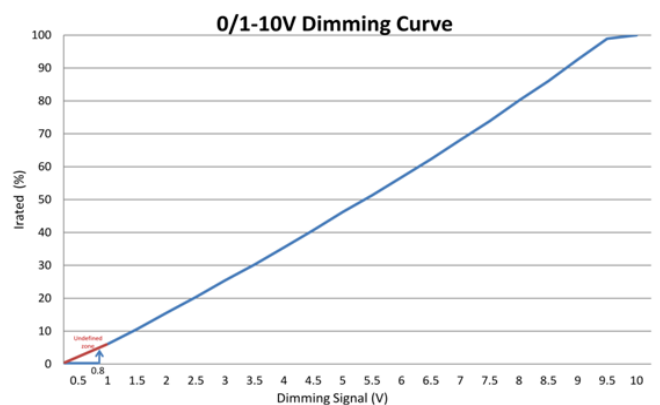
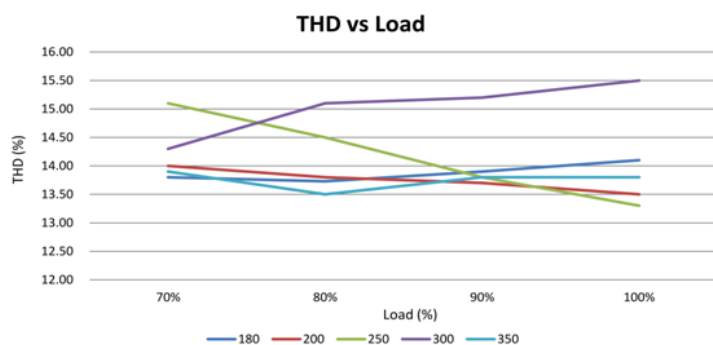
Subject to change without notice, HEP guarantees all products perform functionally well

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

Electrical Values



100 % load corresponds to the max output power.

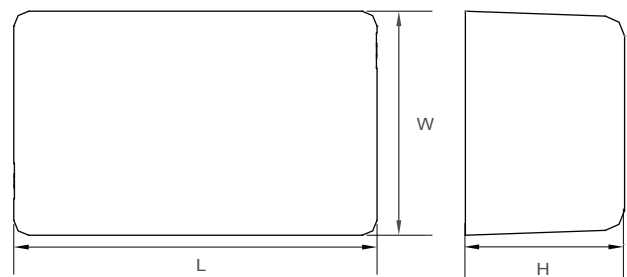


When dimming under 1V, the output current won't be defined.

Physical

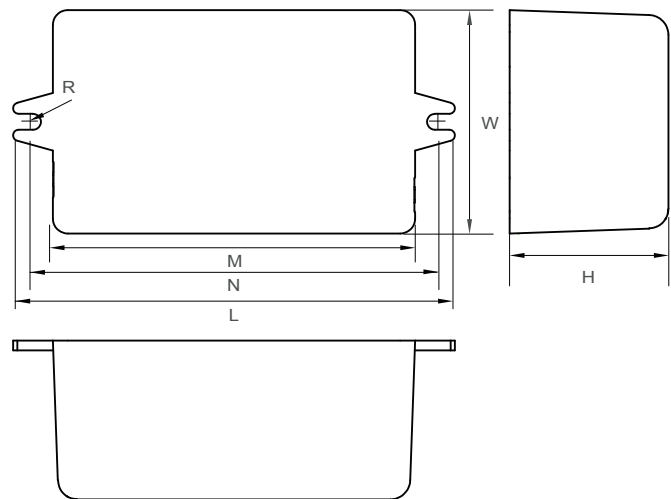
Parameter

Clear type



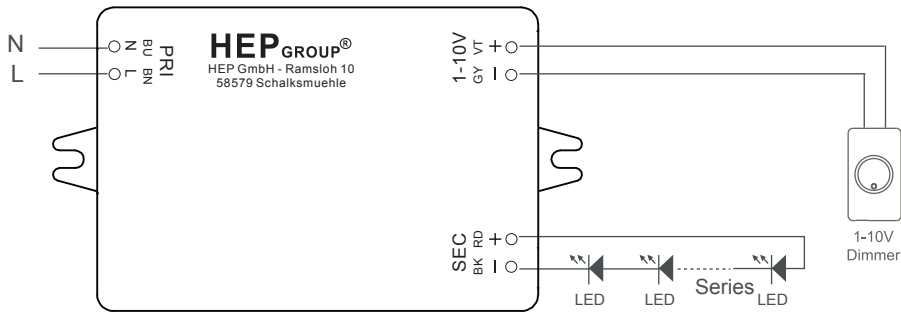
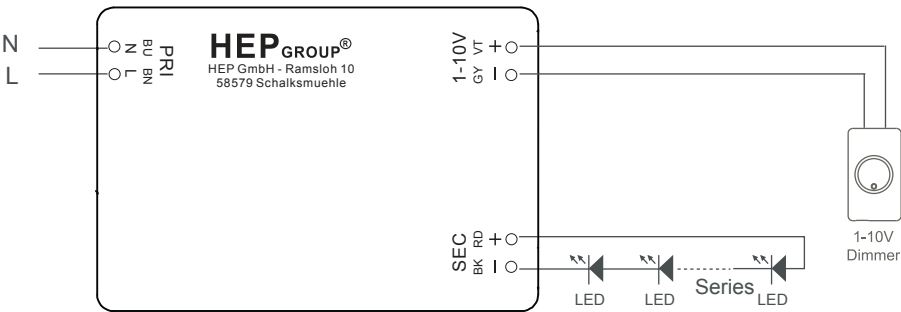
L : 73 mm H : 25 mm
 W : 45 mm
 Tolerance : +/-1 mm
 Housing Material : Polycarbonate / Potting
 Soldering : Lead-Free, Comply With RoHS
 Label : Surface Print

Screw clip type



L : 88 mm N : 80.3 mm H : 25 mm
 M : 73 mm W : 45 mm R : 1.6 mm
 Tolerance : +/-1 mm , R : +/-0.5 mm
 Housing Material : Polycarbonate / Potting
 Soldering : Lead-Free, Comply With RoHS
 Label : Surface Print

Wiring Diagram



Remark :

Before switching on the supply voltage all LEDs must be completely wired and connected,
 and be sure all wire connection complying with instruction of wiring diagram.