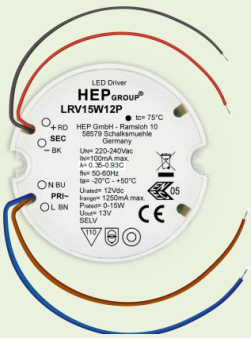
LRV15WxxP

Constant voltage LED Driver



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	100mA	Full load @230VAC
	Total Harmonic Distortion (THD)	< 20%	Full load @230VAC
	Power factor		
	LRV15W24P	0.45–0.93C	Min-load @ 240Vac and Full-load @ 220 Vac
	LRV15W12P	0.35–0.93C	Min-load @ 240Vac and Full-load @ 220 Vac
	Displacement factor		
	LRV15W24P	0.45–0.93C	Min-load @ 240Vac and Full-load @ 220 Vac
	LRV15W12P	0.35–0.93C	Min-load @ 240Vac and Full-load @ 220 Vac
	Efficiency		
	LRV15W24P	88% (Typ.)	Full load @230VAC
	LRV15W12P	86% (Typ.)	Full load @230VAC
	No-load power	NA	
	Stand-by power	NA	
	Protection class	NA	
	Inrush current	17 A / 40 us	
	Earth leakage current	NA	
Output	Nominal voltage range		
	LRV15W24P	24Vdc	
	LRV15W12P	12Vdc	
	Maximum voltage		
	LRV15W24P	26Vdc	
	LRV15W12P	13Vdc	
	Voltage accuracy	± 5%	Full load @230VAC
	Output LF voltage ripple		< 120Hz
	LRV15W24P	± 6%	
	LRV15W12P	± 8%	
	SVM	≦0.4	Full load @230VAC
	PstLM	≦1	Full load @230VAC
	Starting time	< 0.5 S	Full load @230VAC
	Nominal power range		
	LRV15W24P	1.2-15W	
	LRV15W12P	0.6-15W	
	Nominal current range		
	LRV15W24P	50-625mA	
	LRV15W12P	50-1250mA	

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	Item	Value	Remark
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	75°C	
	Max. case temp. in fault condition	110°C	When operating under fault conditions, the temperature of the enclosure at any location should not
	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		
	LRV15W12P		
	Full Load	> 50,000 h, tc 75 °C @ ta 50 °C	0.2 % / 1,000 h failure rate
	Output load ≦8.3W	> 50,000 h, tc 75 °C @ ta 60 °C	0.2 % / 1,000 h failure rate
	LRV15W24P		
	Full Load	> 50,000 h, tc 75 °C @ ta 50 °C	0.2 % / 1,000 h failure rate
	Output load ≦7W	> 50,000 h, tc 75 °C @ ta 60 °C	0.2 % / 1,000 h failure rate
Packing	Gross weight/box	12.2 kg	
	Net weight/box	11.0 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	L	N
	Color	Brown	Blue
	Wire type	7022	7022
	Wire diameter	AWG20	AWG20
	Wire length	142mm	142mm
	Stripping	6mm	6mm
	Tolerance	±5mm	±5mm
Sec	Connection	+	-
	Color	Red	Black
	Wire type	1332	1332
	Wire diameter	AWG22	AWG22
	Wire length	142mm	142mm
	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).

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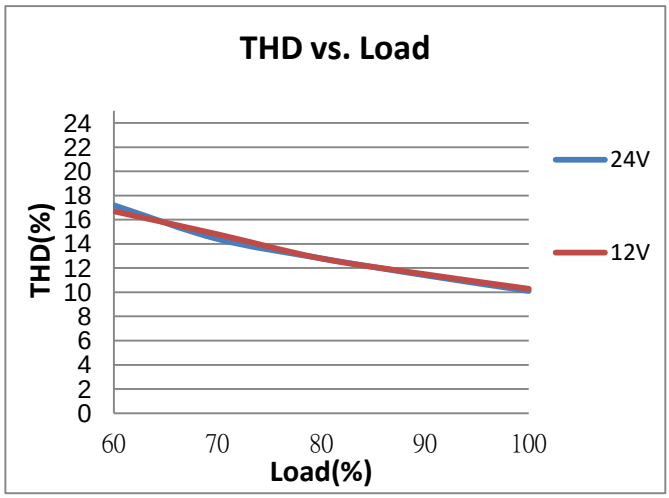
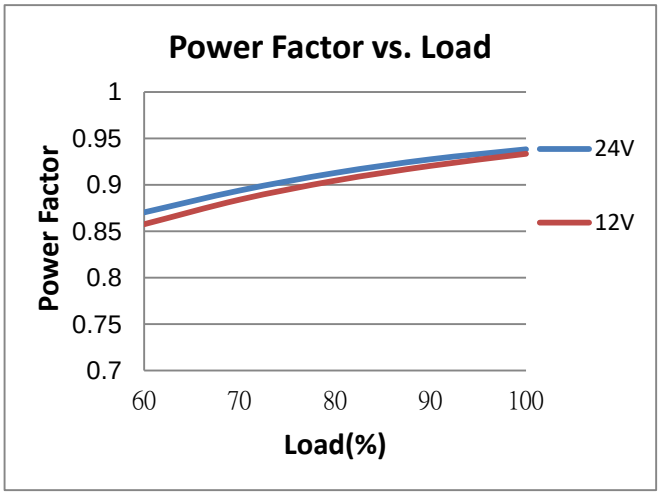
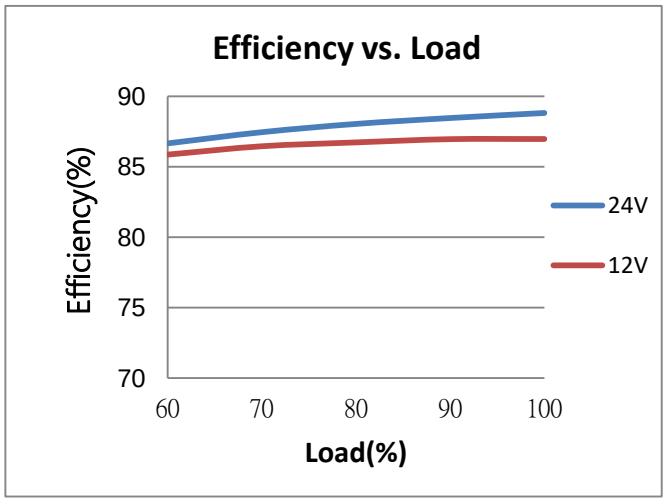
Electrical Values @230vAC







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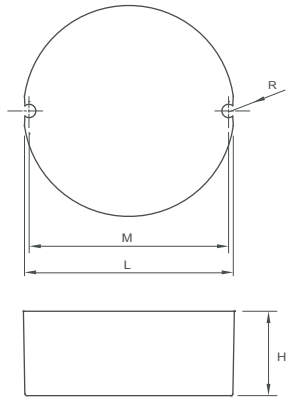
Physical

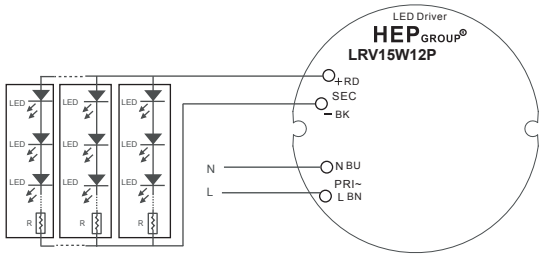
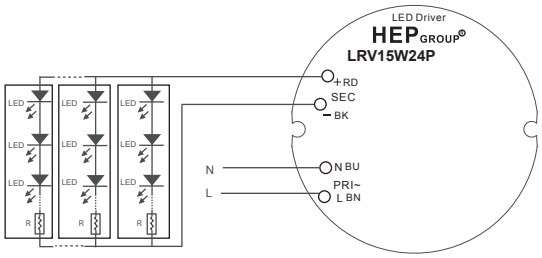
Parameter



L : 55 mm H : 22 mm
M : 52 mm R : 1.75 mm

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

Slot On One Side Allowing Alignment : M+/-3 mm

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

Wiring Diagram