Electrical Specification for **LAV100W24-Z**

Constant Voltage LED Driver

Approval Marks

CE **GMA-510383**

	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		500mA	Full load @230VAC
	Total Harmonic Distortion (THD)		< 10%	Full load @230VAC
	Power factor		0.95	Full load @230VAC
	Displacement factor		0.95	Full load @230VAC
	Efficiency		91% (Typ.)	Full load @230VAC
	No-load power		<0.5W	
	Stand-by power		NA	
	Networked standby power		NA	
	Protection class		II	Suitable for class II luminaires
	Inrush current		12A / 250us	
	Max.units per circuit breaker	Type B , 10A MCB	8	
		Type B , 16A MCB	13	
		Type C , 10A MCB	10	
		Type C , 16A MCB	16	
	Earth leakage current		NA	
Output	Nominal voltage range		24Vdc	
	Maximum voltage		25Vdc	
	Voltage accuracy		± 2.5%	Full load @230VAC
	Outputl LF voltage ripple		± 3%	< 120Hz
	Starting time		< 0.5S	Full load @230VAC
	SVM		≦0.4	Full load @230VAC
	$P_{st}LM$		≦1	Full load @230VAC
	Nominal power range		0-100W	
	Nominal current range		0-4160mA	
	Maximum current		4160mA	
	Maximum power		100W	

	Item	Value	Remark
Dimming	Dimming control	NA	
	Dimming range	NA	
	Lowest dimming current	NA	
	Dimming technique	NA	
	PWM frequency	NA	
	Galvanic isolation	NA	
Environment	Ambient temperature range t_a	-20°C - +50°C	
	Maximum case temperature t_c	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 - +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 90 °C @ ta 50 °C > 100000 h, tc 80 °C @ ta 40 °C	0.2 % / 1,000 h failure rate 0.1 % / 1,000 h failure rate
Packing	Gross weight/box	18.5 kg	
	Net weight/box	16.8 kg	
	Pcs/box	42 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
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

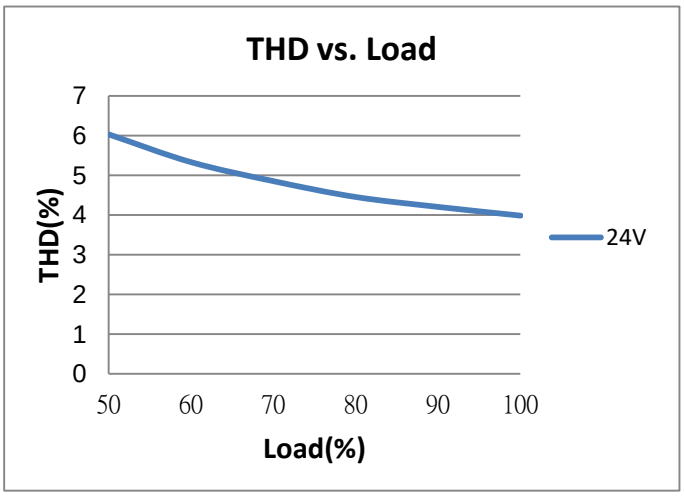
Cable information	
PRI Connection	
Cable cross-section	0.75-2.5□/AWG 18-14
Stripping	9mm
Pull test cable type	H03VV(H2)-F 2x0,75-1,5 m㎡,H05VV(H2)-F 2x0,75-1,5 m㎡
Sec Connection	
Cable cross-section	0.75-2.5□/AWG 18-14
Stripping	9mm

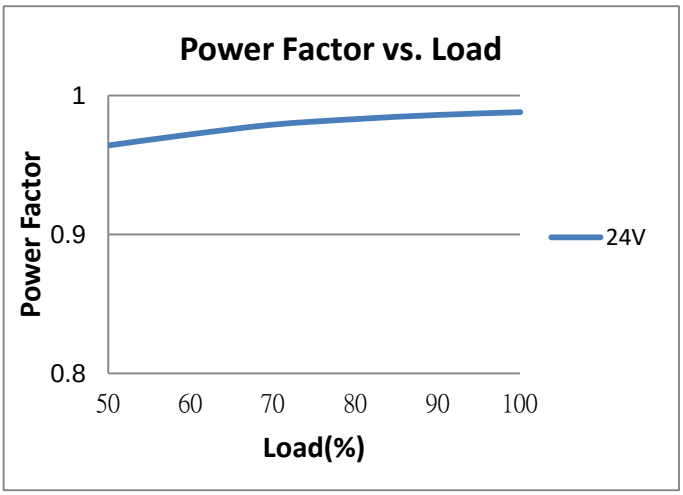
Terminal information	
PRI Screwless button	
SEC Screwless button	

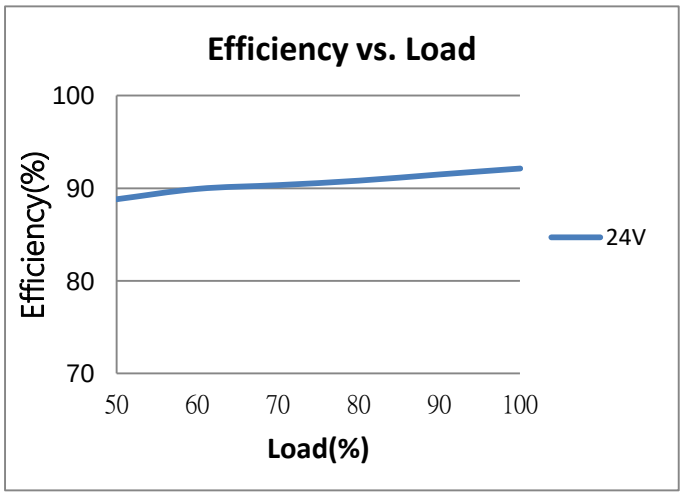
Subject to change without notice, HEP guarantees all products perform functionally well

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

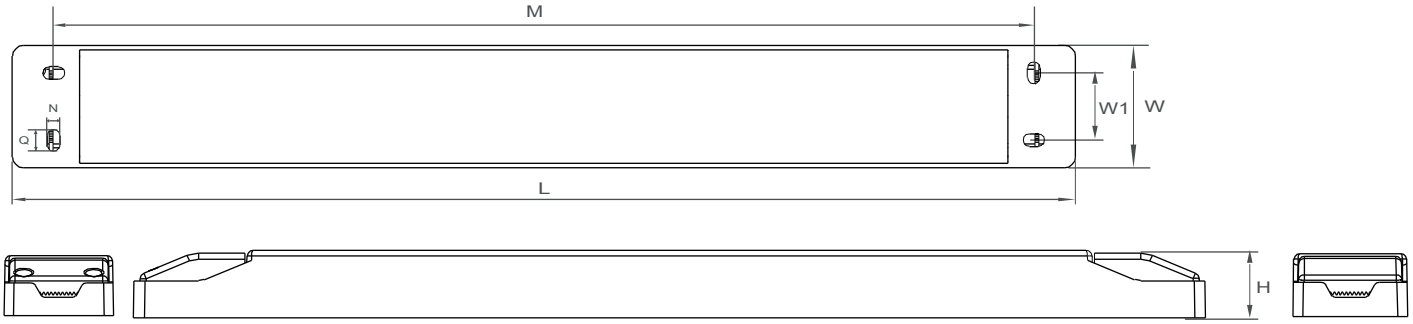
Electrical Values







Physical
Parameter



L : 347.2 mm M : 320 mm H : 22 mm W : 40 mm
W1: 22 mm N : 4.2 mm Q : 7.2 mm

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

Wiring Diagram