LED Electrical Specification for **G5S20W500LR-Z**

Constant Current LED Driver

Approval Marks

SAA-211064-EA

	Item		Value	Remark
Input	Nominal voltage		220–240V	
	Nominal frequency		0 / 50–60Hz	
	AC voltage range		198–264V	
	DC voltage range (start)		NA	
	DC voltage range (operation)		NA	
	Maximum voltage		264VAC	
	Nominal current		130mA	
	Total Harmonic Distortion (THD)		< 15%	Full load @230VAC
	Power factor		0.9C	Full load @230VAC
	Displacement factor		0.9C	Full load @230VAC
	Efficiency		86% (Typ.)	Full load @230VAC
	No-load power		NA	
	Stand-by power		NA	
	Protection class		II	Suitable for class II luminaires
	Inrush current		8.3A /140uS	Nominal
	Max.units per circuit breaker	Type B , 10A MCB	31	
		Type B , 16A MCB	49	
		Type C , 10A MCB	38	
		Type C , 16A MCB	62	
	Earth leakage current		NA	
Output	Nominal voltage range		30-42 Vdc	
	Maximum voltage		53Vdc	
	Nominal current range		500mA	Full load @230VAC
	Current accuracy		± 5%	Full load @230VAC
	Typical output LF current ripple		± 4%	Low Frequency< 120Hz Full load @230VAC
	Starting time		< 0.5 S	Full load @230VAC
	SVM		≦0.4	Full load @230VAC
	$P_{st}LM$		≦1	Full load @230VAC
	Nominal power range		15-21W	
	Maximum power		21W	

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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	90°C	Bottom
	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	-25°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
Packing	Gross weight/box	kg	
	Net weight/box	kg	
	Pcs/box	100 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
SAA standard:	AS/NZS 61347.1, AS/NZS IEC 61347.2.13
Cable information	
PRI	
Cable cross-section	0.75-1.5□/AWG 18-16
Stripping	6mm
Pull test cable type	H03VV(H2)-F 2x0,75-1,5 mm²,H05VV(H2)-F 2x0,75-1,5 mm²
SEC	
Cable cross-section	0.5-1.5□/AWG 20-16
Stripping	6mm
Terminal information	
PRI-Screw type	
SEC-Screw type	

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

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

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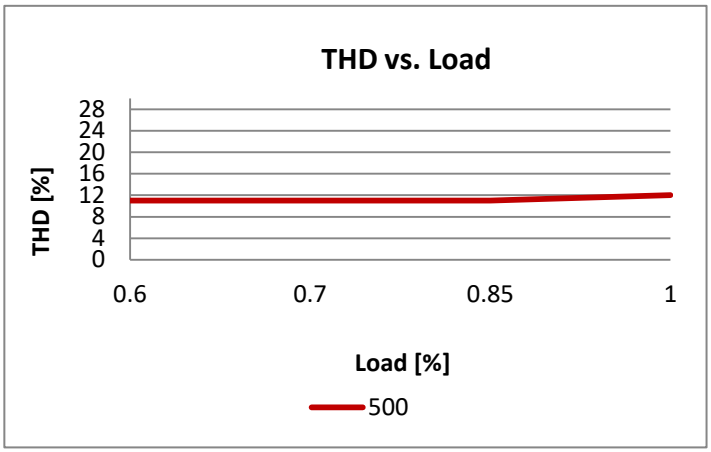
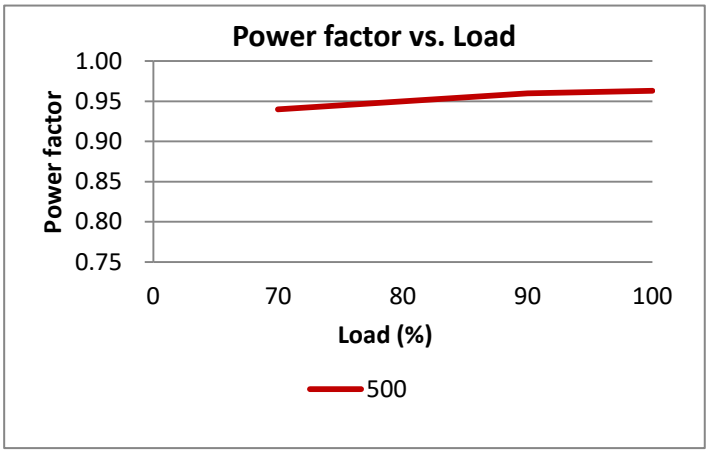
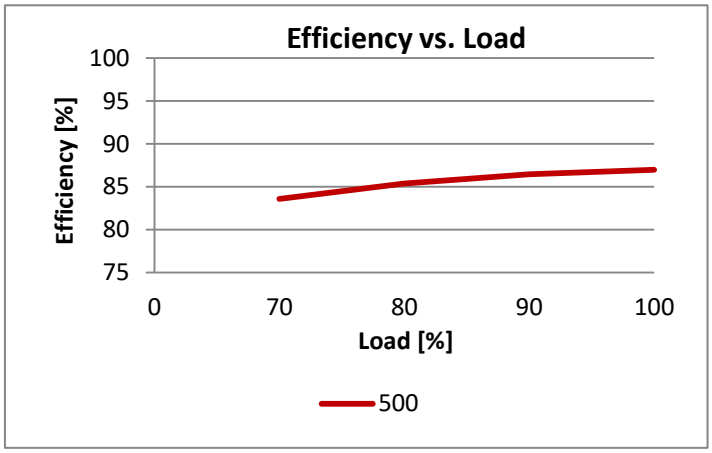
Electrical Values







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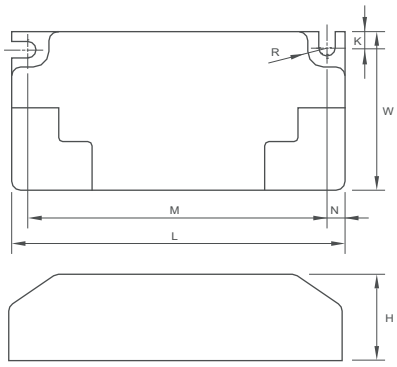
Physical

Parameter



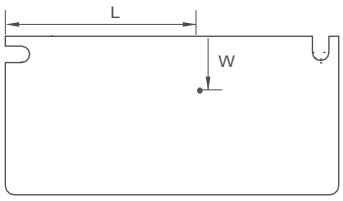
L :	85 mm	H :	22 mm
M :	76.4 mm	K :	4.0 mm
N :	4.6 mm	R :	2.1 mm
W :	40.4 mm	Slot On One Side Allowing Alignment : M+/-3 mm	

Tolerance : ≥0 ~ 100 ≥ +/-0.5mm
100 ≥ +/-1 mm

Terminal Block	:	PRI : Screw Type SEC : Screw Type
Housing Material	:	Polycarbonate
Soldering	:	Lead-Free, Comply With RoHS
Label	:	Surface Print

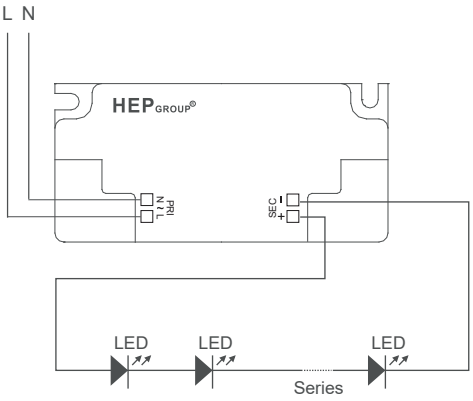
Case temperature (tc-point)

On the bottom



L : 50 mm W : 10 mm

Wiring Diagram



The length of wire from output to luminaire should be less than 2M