HEP

Electrical Specification for **LLWC12W300NLR-T**

Wireless Dimmable LED Driver

Approval Marks

CE UKCA

CASAMBI Powered by tuya Intelligence Inside HEP Wireless

	Item	Value	Remark
Input	Nominal voltage	220 - 240 V	
	Nominal frequency	50 - 60 Hz	
	AC voltage range	198 - 264 V	
	DC voltage range (start)	NA	
	DC voltage range (operation)	NA	
	Nominal current	75 mA	
	Total Harmonic Distortion (THD)	< 20 %	Full load @230VAC
	Power factor	0.5-0.9 C	Min-load @ 240Vac and Full-load @ 220 Vac
	Displacement factor	0.5-0.9 C	Min-load @ 240Vac and Full-load @ 220 Vac
	Efficiency	80 %(Typ.)	Full load @230VAC
	No-load power	NA	
	Stand-by power	NA	
	Networked standby power	< 0.5 W	
	Protection class	NA	Suitable for class I luminaires
	Inrush current	15.8 A / 25.6 us	Full load @264VAC
	Max.units per circuit breaker	Type B , 10A MCB: 53	
		Type B , 16A MCB: 85	
		Type C , 10A MCB: 67	
		Type C , 16A MCB: 107	
	Earth leakage current	NA	
Output	Nominal voltage range		
	150-300mA	10 - 40 Vdc	
	Maximum voltage	60 Vdc	
	Output channels	2	
	Nominal current range	150 - 300 mA	DC Output with adjustable constant current from 150 to 300 mA via NFC in 1mA steps Factory default 150mA
	Current accuracy	± 5 %	Full load @230VAC
	Typical output LF current ripple	± 5 %	Low Frequency< 120Hz Full load @230VAC
	SVM	≦ 0.4	Full load @230VAC
	$P_{st}LM$	≦ 1	Full load @230VAC
	Starting time	< 1 S	Full load @230VAC, Soft Start
	Nominal power range	1.5 - 12 W	
	Maximum power	12 W	
Dimming	Dimming control	Wireless	
	Dimming range	1 - 100 %	see the dimming curve
	Lowest dimming current	0.5 - 2 %	@Vo=40Vdc
	Dimming technique	Amplitude	
	PWM frequency	NA	
	Galvanic isolation	NA	

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	Item	Value	Remark
Environment	Ambient temperature range t_a	- 20 °C - + 50 °C	
	Maximum case temperature t_c	80 °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	2KV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
	Expected lifetime		
	Full load 6-12W	> 50,000 h , tc 80 °C @ ta 50 °C	0.2% / 1,000 h failure rate
	Output load ≦ 7.3W	> 50,000 h , tc 80 °C @ ta 60 °C	0.2% / 1,000 h failure rate
Packing	Gross weight/box	kg	
	Net weight/box	kg	
	Pcs/box	PCS	
	Dimension/box	(L) * (W) * (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
Wireless standard:	ETSI EN300 328, ETSI EN301 489-1, ETSI EN301 489-17

Cable information	**PRI Connection**	
	Cable cross-section	0.5 - 1.5 □ / AWG 20 - 16
	Stripping	9 mm
	SEC Connection	
	Cable cross-section	0.5 - 1.5 □ / AWG 20 - 16
	Stripping	9 mm
Terminal	**PRI-**	Push button/Angled Entry
	SEC-	Push button/Angled Entry

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).

■Specification of wireless module

Wireless modul	Brand	Model name	APP
Dual Channel	HEP	WBDA	HEPxIDEA
	TUYA	WBDB,WZDB	Smart Life
	CASAMBI	WBDD	CASAMBI

**For optional model, please check out its data sheet for details of specification.

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■ Lighting Control APP

The APP can be downloaded on Apple Store and Google Play Store for iOS and Android.

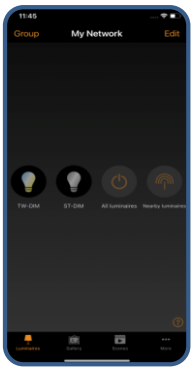
You can search APP name "casambi" "smart life" "HEPxIDEA", or scanning the QR cord.

Download on the App Store

GET IT ON Google Play

CASAMBI

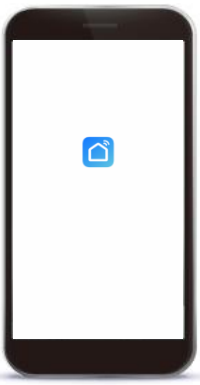
Android IOS



Website：https://casambi.com/

Tuya(Smart Life)

Android IOS



Website：https://www.tuya.com/cn/

HEP(HEPxIDEA)

Android IOS

Website：http://www.hepgroup.net/zh-tw/a2-4990/HEPxIDEA.html

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■Current adjustable

Output current/Color temperature can be adjusted by NFC reader and APP

NFC Reader (optional)

Feature:

Easily on-line read a output current from a driver or write a new current data to a driver throughout HEP NFC reader within few seconds.

NFC APP

Feature:

Quickly check output current of a LED driver simply via Android smart phone, as well as, correct or setup a new current data immediately with no extra equipment at any job site.

ICON

Main

Keep NFC emission of smart phone closed to NFC antenna of LED driver

Touch instantly to tune output current and/or color temperature

QR Code

Google play

APK

Android 4.2 Up
Smart phone with a NFC function

Output Current (mA)	Output Voltage Range (V)	Output Power Range (W)
300	10-40	3.0-12.0
250	10-40	2.5-10.0
200	10-40	2.0-8.0
150	10-40	1.5-6.0

* Upon client's special demand, customized current range in between 150 mA and 300 mA could be specified as factory default from shipment. This default current range availably revised again via NFC reader program at client's site, if necessary.

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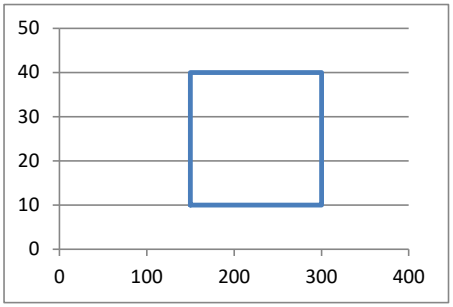
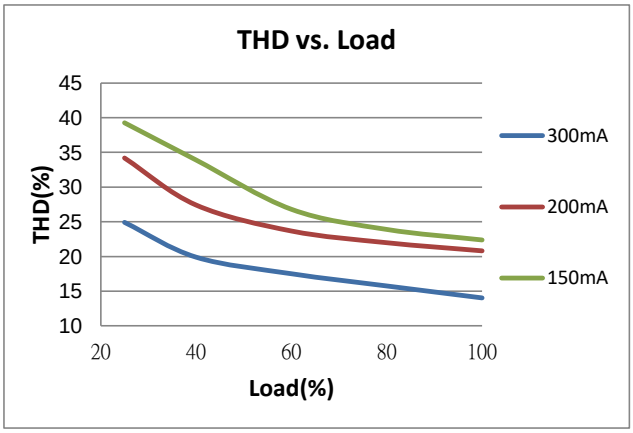
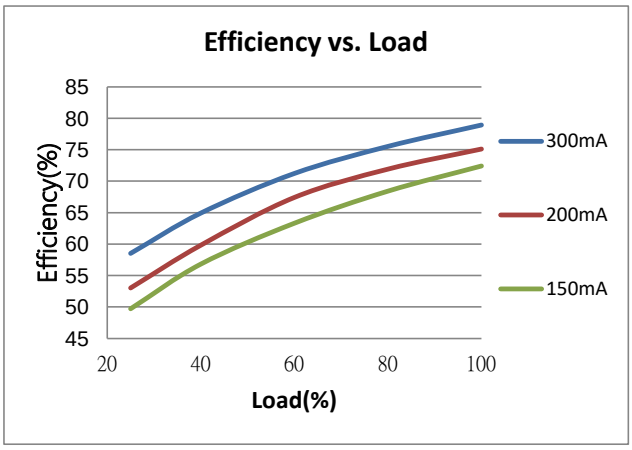
V/I Curve

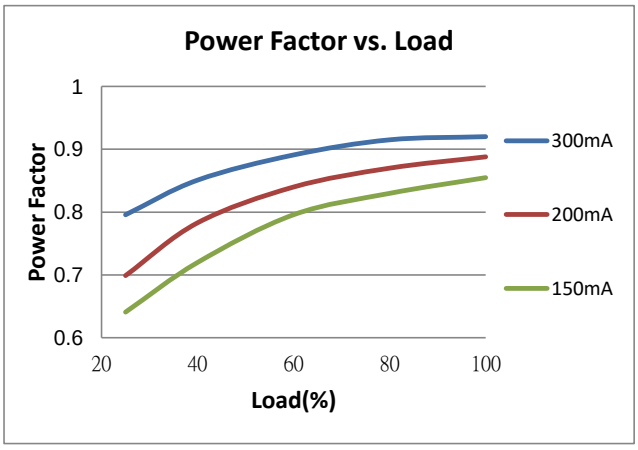
Output Power Range



Electrical Values







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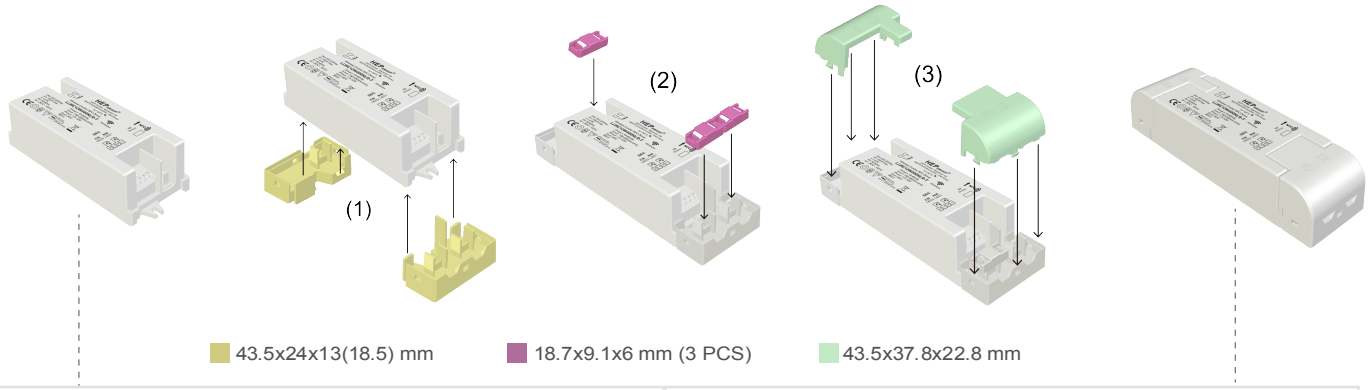
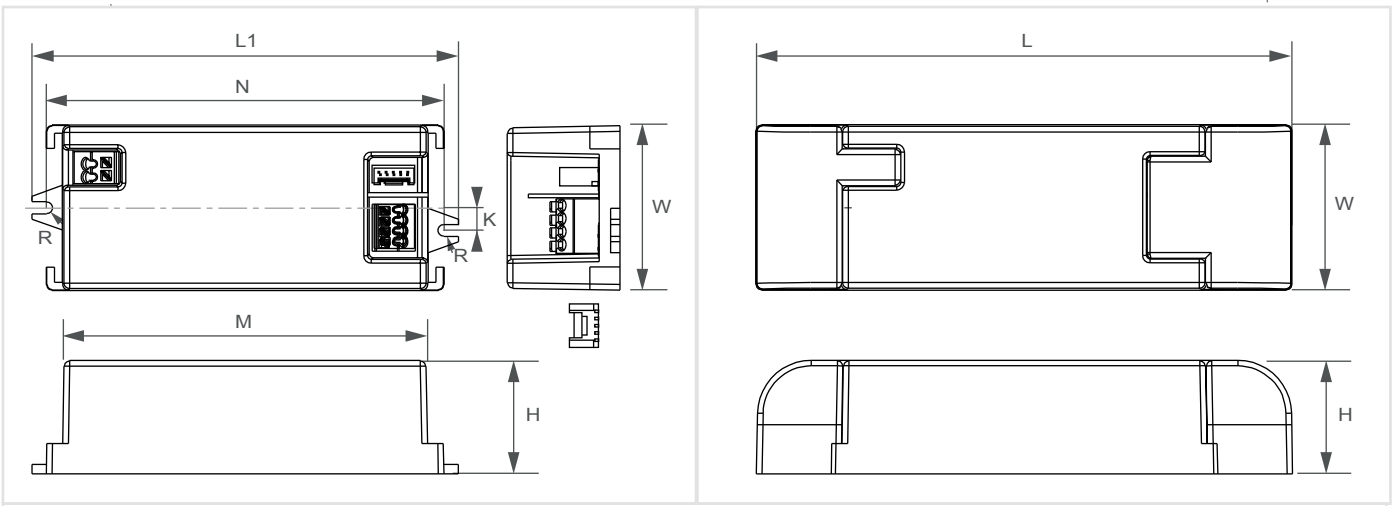
Physical

Parameter

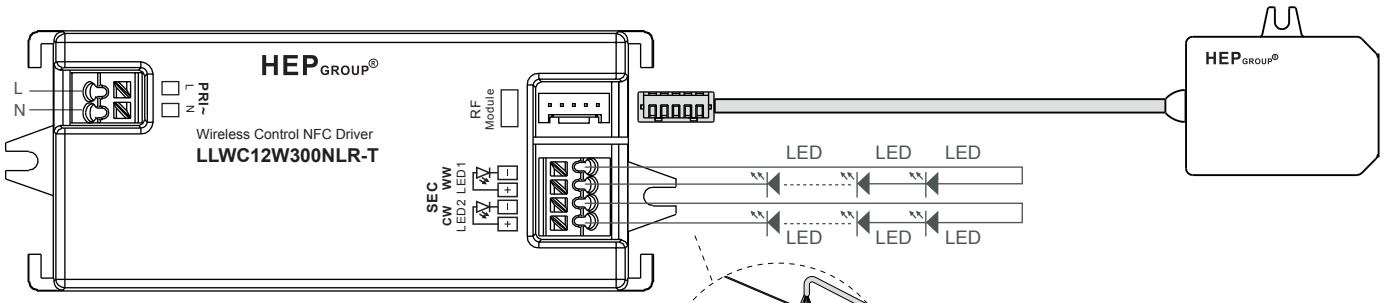
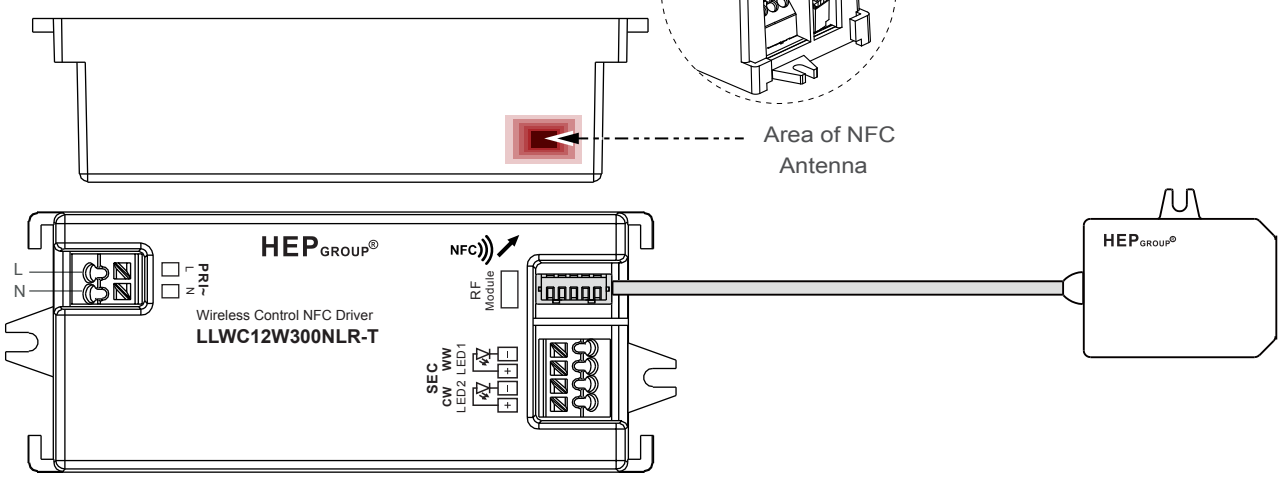
▼ By adding side covers the built-in type simply easy as an independent unit.





L :	141.8	mm	L1 :	112.8	mm	Tolerance :	+/-1 mm , R : +/-0.5 mm
W :	43.8	mm	K :	6.0	mm	Housing Material	: Polycarbonate
H :	30	mm	M :	96.8	mm	Soldering	: Lead-Free, Comply With RoHS
R :	1.6	mm	N :	105.2	mm	Label	: Surface Print

WiringDiagram



NFC Antenna Location