

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	107mA	Full load @230VAC
	Total Harmonic Distortion (THD)	< 10%	Full load @230VAC
	Power factor	0.9C	Full load @230VAC
	Displacement factor	0.9C	Full load @230VAC
	Efficiency	83% (Typ.)	Full load @230VAC
	No-load power	N/A	
	Stand-by power	<0.5W	
	Protection class	N/A	
	Inrush current	9A / 50us	Full load @240VAC
Earth leakage current	NA		
Output	Nominal voltage range	20-40 Vdc	
	Maximum voltage	50Vdc	
	Nominal current range	500mA	
	Current accuracy	± 5%	Full load @230VAC
	Typical output LF current ripple	± 5%	Low Frequency< 120Hz Full load @230VAC
	Nominal power range	10-20W	
	Maximum power	20W	
Dimming	Dimming control	Wireless	
	Dimming technique	NA	
	PWM frequency	NA	
	Dimming range	1 -100%	
	Lowest dimming current	NA	
Galvanic isolation	Basic insulated to PRI and supplementary insulated to SEC		

	Item	Value	Remark
	Ambient temperature range t_a	-20°C - +60°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
Environment	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		
	Output load 20W	> 70,000 h, $t_{c85} \text{ °C @ } t_a \text{ 50 °C}$	0.14 % / 1,000 h failure rate
		> 40,000 h, $t_{c90} \text{ °C @ } t_a \text{ 60 °C}$	0.25 % / 1,000 h failure rate

Packing	Gross weight/box	kg
	Net weight/box	kg
	Pcs/box	72 PCS
	Dimension/box	490(L)*270(W)*225(H)mm

Protections

Short- & open circuit proof, Auto, Overload protection

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	AWG18	AWG18
Wire length	130mm	130mm
Stripping	6mm	6mm
Tolerance	±5mm	±5mm

Sec Connection	+	-
Color	Red	Black
Wire type	3385	3385
Wire diameter	AWG22	AWG22
Wire length	115mm	115mm
Strip length	6mm	6mm
Tolerance	±5mm	±5mm

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

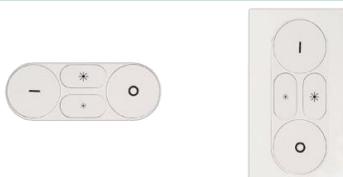
Subject to change without notice, HEP guarantees all products perform functionally well

Specification of wireless module



Item	Value
Wireless protocol	Compliance with Bluetooth version 4.2 and above
Operating Frequency	2.4G~2.45 GHz
Antenna	Onboard chip antenna
Transmission Range	>20M (open site)
Power Supply	DC3.3V~3.6V
Operating Environment	-40~+45 °C
Dimension	Case:43(L)x31(W)x12(H)mm lead length: mm

Remote Control (optional)



Model : BR-4K

Wireless protocol	Compliance with BLE version 4.2 and above
Operating frequency	2.4G~2.485 GHz
Antenna	Module Chips Antenna
Transmission distance	10-15M
Power consumption	Stand-by mode : 0.03W Operation mode:10A
Power supply	1 x CR2450 3Vdc battery
Operating environment	-0~+45 °C , 5~80% RH
Material	ABS
Dimension	95mm(L)x35mm(W)x12mm(H) Wall Panel120mm(L)x70mm(W)x16.3mm(H)

Lighting Control APP

APP(HEPxIDEA)

Working via WBDA freely control lights to dim up or down, tune warm or cool color by just using a smart phone.

Android

iOS

ICON

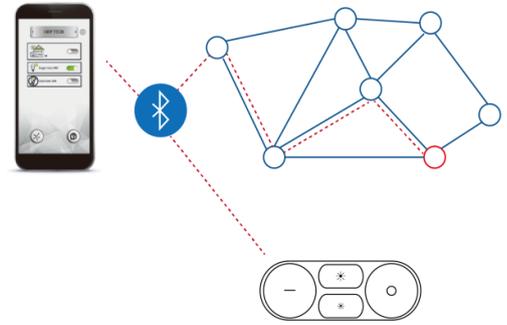
Main



OS Version : Android 5.0 Up, iOS 10.3 Up

Mesh function

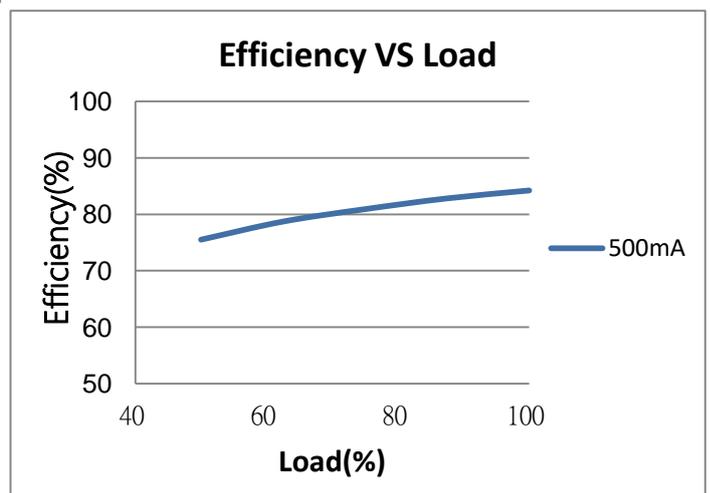
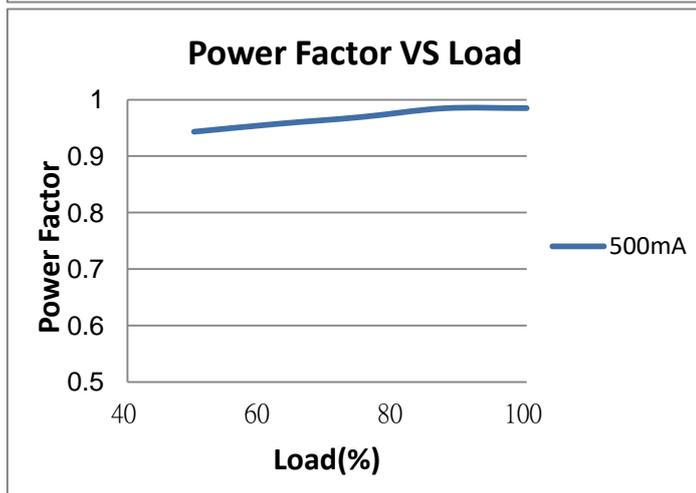
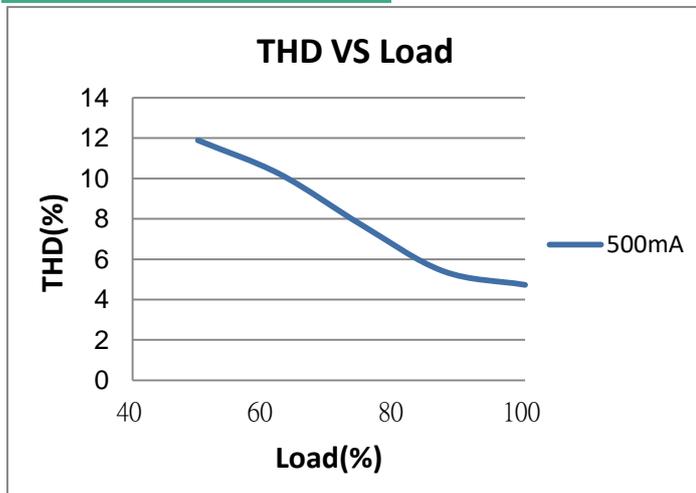
- 1.Mesh Network totally connecting up to 250 devices
- 2.All devices grouping to 16 groups maximumly
- 3.A group added in total of 30 devices
- 4.A device joined to 8 different groups overall
- 5.Timer preset 4 types of schedule onto individual device and groups as well
- 6.Maximum 5 scenes available to be determined



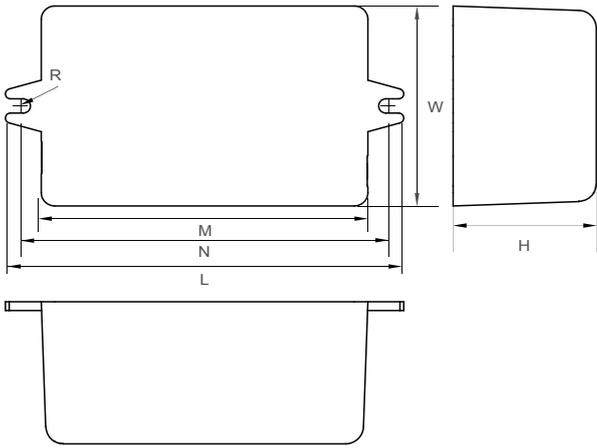
Remote Control

- 1.Perfectly operate HEP wireless LED drivers on diming up/down or tuning color temperature
- 2.Work in conjunction with APP HEPxIDEAL to functionally manage lighting on individual or group control
- 3.Slim and elegant design in form factor with ultra light weight of 90 grams
- 4.Firmly fixed on and easily taken apart from magnetic wall panel for use convenience
- 5.Long transmission distance of 10~15 meters in controlling luminaires

Electrical Values



Physical
Parameter



L : 89 mm N : 81 mm H : 32 mm
M : 73 mm W : 45 mm R : 1.6 mm
Housing Material : Polycarbonate / Potting
Soldering : Lead-Free, Comply With RoHS
Label : Surface Print

Wiring Diagram

