

Product Briefing









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LiPHY Adapter Series for Constant Current Drivers

Features

- Wide DC input voltage and current range to support a wide category of LED Drivers
- ♦ Compatible with CC LED Drivers
- Easy installation through insertion between Driver and LED
- ♦ Wireless control through custom smartphone application or SDK
- Supports dimming control for CC drivers
- 1 year warranty



S

Input Voltage Range*	DC 12-50 V	Input Current Range	DC 0-3 A	
Output Voltage Range*	DC 12-50 V	Output Current Range	DC 0-3 A	
Operating Temperature	−10 to 40 °C	Dimensions	L* W * H: 62 mm * 32 mm * 26 mn	
Weight	45 gm			
CC Driver Compatibili	ty Guide			
	power rating must be at least 25% ference table is shown below	higher than the LED's power	consumption.	
LED Power Consumpti	on CC Driver Max Rating Rec	quired for LiPHY		
10 W	12.5 W (CC 0.3 A, 42 V	Max)		
10 W	12.5 W (CC 0.7 A, 18 V	Max)		
20 W	25 W (CC 0.7 A, 36 V N	lax)		
20 W	25 W (CC 1.4 A, 18 V N	25 W (CC 1.4 A, 18 V Max)		
30 W	37.5 W (CC 0.7 A, 54 V Max)			
30 W 37.5 W (CC 1.4 A, 27 V Max)				
40 W	50 W (CC 1.0 A, 50 V M	lax)		
40 W	50 W (CC 2.0 A, 25 V N	50 W (CC 2.0 A, 25 V Max)		
	RF Spe	ecifications		
RF Standard	BLE 4.0	Advertisement Mode	iBeacon	
TX Power	0 dBm	Wireless Range	Up to 10 meter	
Broadcast Interval	1–10 times/s			
LiPHY Control				
Programmability	via Smartphone App	Cloud Based CMS	Included	
Password Protection	Yes	Dimming Support #	Min. dimming level determines the max. LiPHY detection distance	
Firmware update Over the air (OTA) supported		Detection Range ^	Light source dependent	

^{*} This range is the total supported range by all the products of the same category. For breakdown between each model, see the products description below.

2/11/2020

[#] Dimming support ONLY for constant current (CC) drivers with built-in 0-10V analog dimmer. PWM and TRIAC dimmer are not supported.

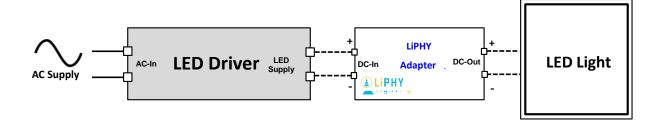
[^] Detection range and sensitivity depends on the intensity, size & dimensions of light and may vary depending on the type of light.



Product Range

Series	Model	Input / Output Voltage	Input / Output Current	Max Power
LiPHY	LP025020E1	12-25 V	0 – 2A	50 W
CC	LP050020E2	25-50 V	0 – 2A	100 W

Hardware Application Diagram





LiPHY Downlight LED Panel with Driver

Features

- ♦ An integrated solution of LiPHY features in downlights
- ♦ Constant current (CC) driven 18 Watt downlight panels
- Wireless control through custom smartphone application or SDK
- ♦ Round and Square shaped Panel Light
- Protection: short circuit and over load protection
- 1 year warranty



LED Panel - Electrical and Mechanical Specifications				
Rated Power	18 watt	Input Current	300mA	
Optical Output	1500lm @ 6000 K	Dimension	220 mm x 220 mm	
Light Panel Area	175 mm x 175 mm			
Driver - Electrical and	Mechanical Specifications			
Input Voltage Range	AC 100-277 V 50/60 Hz	Power Factor	> 0.9	
Output Voltage Range	DC 50-60 V	Output Current	300 mA	
Operating Temperature	−10 to 40 °C	Dimensions	L* W * H: 71 mm * 50 mm * 34 mm	
RF Specifications				
RF Standard	BLE 4.0	Advertisement Mode	iBeacon	
TX Power	0 dBm	Wireless Range	Up to 10 meters	
Broadcast Interval	1-10 times/s			
LiPHY Control				
Programmability	On the fly ID update via Smartphone App	Cloud Based CMS	Available	
Password Protection	Yes	Firmware update	Over the air (OTA) supported	
Applications				
Ceiling panel lamps for indoor lighting to enable indoor positioning and location based content delivery				



LiPHY LED LightBox

Features

- ♦ An integration solution of LiPHY feature in LED LightBox
- ♦ Wireless control through custom smartphone application or SDK
- Customization of Graphics and shape of lightbox possible.
- ♦ USB cable connection
- ♦ Used in conjunction with LiPHY adapter
- ♦ 1 year warranty



Electrical and Mechanical Specifications				
Power Consumption	3.5 watt (Maximum)	Weight	0.5 kg (Maximum)	
Illuminance	3900 LX	Overall Dimension	L*W *H: 200 mm * 200 mm * 4- mm	
Color Temperature	6500K	Wire Length	1 meter (Minimum)	
RF Specifications				
RF Standard	BLE 4.0	Advertisement Mode	iBeacon	
TX Power	0 dBm	Wireless Range	Up to 10 meters	
Broadcast Interval	1-10 times/s			
LiPHY Control				
Programmability	On the fly ID update via Smartphone App	Cloud Based CMS	Available	
Password Protection	Yes	Firmware update	Over the air (OTA) supported	



LiPHY GOBO Projector

Features

- ♦ An integration solution of LiPHY feature in GOBO Projector
- Includes 1 custom design slide (With maximum two color design)
- ◆ The LiPHY adapter module is integrated inside the Projector.
- It is used to turn the projection into a smart projection or information channel.
- LiPHY powered GOBO Projector is used for outdoor advertising and content extraction.
- ◆ Installation Need to be mounted on the ceiling and can be projected on the floor or wall.





Electrical and Mechanical Specifications				
Power Consumption	25 watt (Maximum)	Rated Voltage	AC 220V	
IP Rating	IP 65	Weight	1 kg (Maximum)	
Material	Aluminum Alloy	Wire Length	1 meter (Minimum)	
RF Specifications				
RF Standard	BLE 4.0	Advertisement Mode	iBeacon	
TX Power	0 dBm	Wireless Range	Up to 10 meters	
Broadcast Interval	1-10 times/s	Detection Range	> 2meter	
LiPHY Control				
Programmability	Update via Smartphone App	Cloud Based CMS	Available	
Password Protection	Yes	Firmware update	Over the air (OTA) supported	



LiPHY AC Bulb

Features

- ♦ An integrated solution of LiPHY features in Bulb
- ♦ With E27 screw base.
- ♦ Wireless control through custom smartphone application or SDK
- Packaged with holder and extender
- ♦ 1 year warranty



Input AC	220 V	Maximum Power	5 Watts
Maximum Lumen Output	400 lm @ 6000 K	Bulb Diameter	55 mm
Weight	0.1 kgs	Weight with holder and extender	Less that 1 kg
RF Specifications			
RF Standard	BLE 4.0	Advertisement Mode	iBeacon
TX Power	0 dBm	Wireless Range	Up to 10 meters
Broadcast Interval	1-10 times/s		
LiPHY Control			
Programmability	On the fly ID update via Smartphone App	Cloud Based CMS	Available
Password Protection	Yes	Firmware update	Over the air (OTA) supported
Applications			



LiPHY USB Bulb

Features

- ♦ Ideal for LiPHY development and evaluation
- ♦ Portable design based on USB plug
- ♦ Low power (1W) compatible with standard power-banks
- Wireless control through custom smartphone application or SDK
- ♦ 1 year warranty



Electrical and Mechanical Specifications				
Input Voltage	5 V	Current	< 200mA	
Luminance	~150 lm	Bulb diameter	4.5 cm	
Operating Temperature	-10 to 40 °C			
RF Specifications				
RF Standard	BLE 4.0	Advertisement Mode	iBeacon	
TX Power	0 dBm	Wireless Range	Up to 10 meters	
Broadcast Interval	1-10 times/s			
LiPHY Control				
Programmability	On the fly ID update via Smartphone App	Cloud Based CMS	Available	
Password Protection	Yes	Dimming Control	25-100%	
Firmware update	Over the air (OTA) supported	Detection Range	Up to 30 centimeters	
Applications				
To be used as a portable light for LiPHY application development and demonstration.				

2/11/2020