



LIGHTING UNDER YOUR CONTROL.



LED LAMP FACTORY
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*The contents of this volume are for reference only, and the relevant updates are subject to the enterprise announcement

DIMMER SWITCH 2026

www.freelightingled.com



**FREE LIGHTING
LIMITED**





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Sedex[®]



EMC FC

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About us

FREE LIGHTING is a professional LED lighting manufacturer located in Shenzhen, China. We have strived to provide highly reliable products and customized solutions with advanced technologies to our customers for the past 17 years.

We proudly deliver an annual output of 4.8 million LED light bulbs and 740,000 dimmers to customers worldwide.

We began developing LED miniature lamps in 2013. We launched the FREE LIGHTING ceramic miniature series and introduced the first patented

G9 lamp in 2014, aiming to solve issues such as low lumen output, poor color performance, and high light decay in LED miniature lamps.

In 2017, our 4.5W dimmable G9 lamp passed the first 10,000-hour aging test. It also successfully passed the ERP, JA8, and Energy Star lifetime tests.

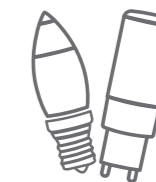
We also developed the FREE LIGHTING LED dimmer series with electronic short-circuit, overload, and overheat protection. This series was launched in 2019 to address compatibility issues commonly found with LED dimmers.



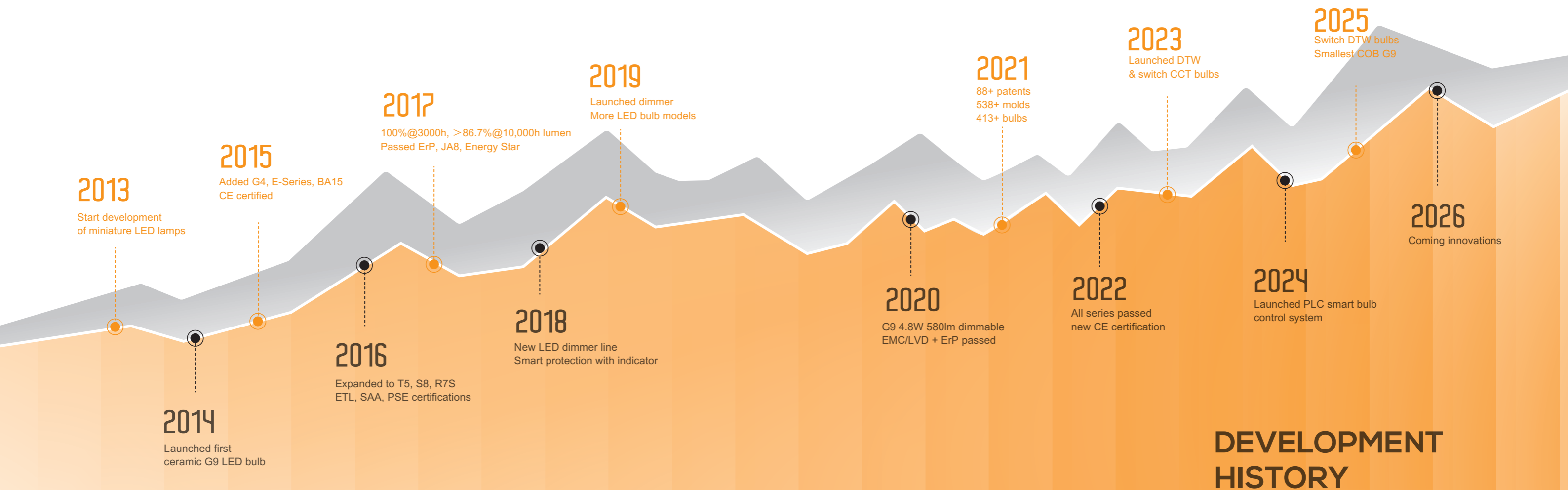
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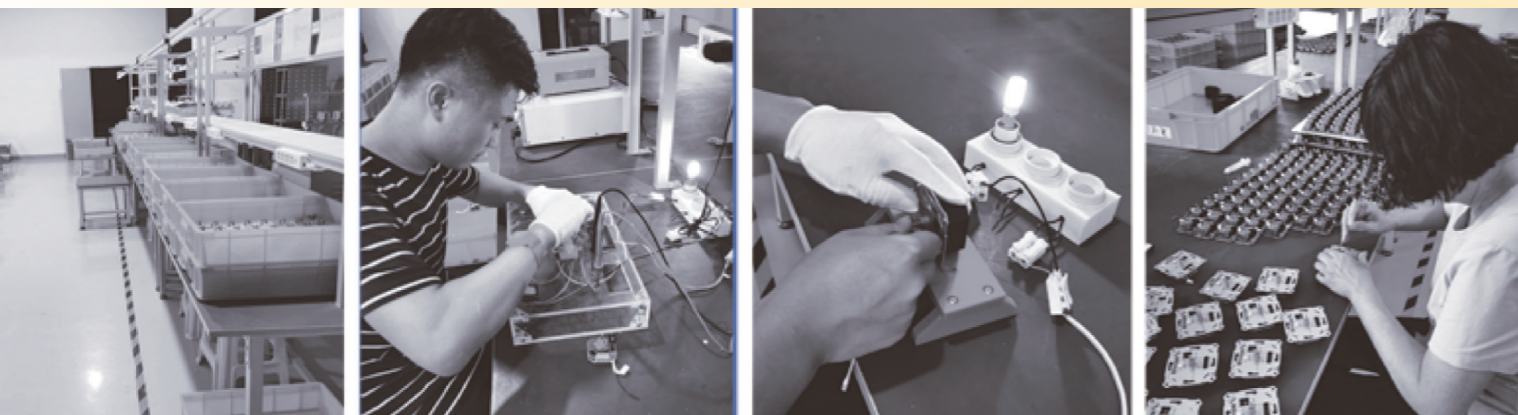
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BULB MODELS



DEVELOPMENT HISTORY

STRENGTHS

PRODUCTION PROCESS



DIMMER SOLUTIONS: SIMPLE & EASY MATCHING

FREE LIGHTING is proud to have developed our LED dimmer series, designed for ease of use and compatibility with over 128 LED models from a wide variety of brands.

WE HAVE A PROFESSIONAL TEAM TO BETTER SERVE YOUR NEEDS

The FREE LIGHTING team is made up of 48 dedicated professionals known for their responsibility, diligence, and commitment to quality. Our R&D and sales teams work closely with every client to deliver exceptional service and professionalism at all times. One thing is certain—FREE LIGHTING will never stop striving for improvement.

100% QUALITY CONTROL TO PROTECT YOUR BRAND

At FREE LIGHTING, our mission is to provide highly reliable products that protect your brand's reputation. This commitment begins at the earliest stages of product development, where we pay close attention to every design detail. As a result, our mass-produced LED dimmers consistently meet high standards of quality and performance. Each dimmer must also pass a four-stage testing process to ensure that every unit shipped to you is in perfect working condition. At the heart of this process are our skilled, efficient, and dedicated workers—individuals who take pride in every product they help bring to life.

CONFIDENTIALITY & PRODUCT SAFETY GUARANTEED-88 PATENTS & FULL CERTIFICATIONS

At FREE LIGHTING, we take great pride in operating with the highest level of integrity. We understand how essential it is to protect your original ideas and designs while helping you remain competitive in your market. You can trust that all the certifications and testing reports we provide are fully authentic and backed by verified test data.

DIMMER SWITCH

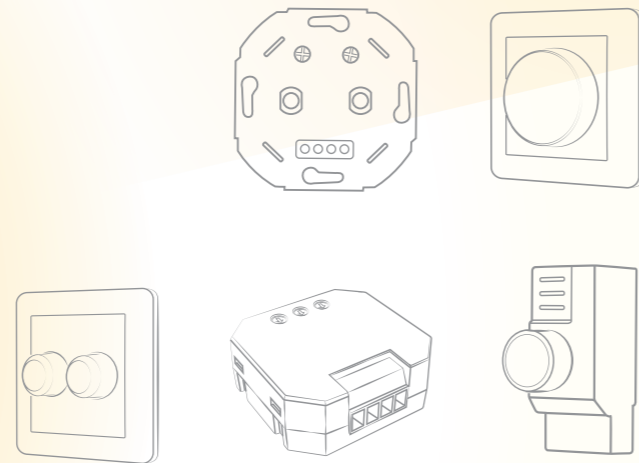
FREE LIGHTING LAUNCHED ITS NEWLY RECONFIGURED AND IMPROVED DIMMER SWITCHES IN 2018. ALL OUR DIMMER SWITCHES ARE CERTIFIED AND HAVE PASSED STRICT EMC AND FCC REGULATIONS. SINCE THEN, OUR PRODUCTION HAS GROWN TO AN ANNUAL OUTPUT OF OVER 740,000 DIMMER SWITCHES.

ONE OF THE MOST FREQUENT CHALLENGES WE'VE ENCOUNTERED SINCE LAUNCHING OUR FREE LIGHTING LED LIGHT BULB SERIES IN 2014 RELATES TO DIMMER SWITCHES. MANY OF OUR VALUED CUSTOMERS HAVE ASKED WHY DIMMABLE LED BULBS OFTEN FLICKER OR FLASH WHEN PAIRED WITH CERTAIN DIMMERS. THIS ISSUE STEMS FROM COMPATIBILITY MISMATCHES BETWEEN TRADITIONAL DIMMER SWITCHES AND MODERN LED TECHNOLOGY. OVER THE YEARS, CONSUMERS REPEATEDLY ASKED WHETHER FREE LIGHTING COULD DEVELOP A DIMMER SWITCH SPECIFICALLY DESIGNED TO WORK SEAMLESSLY WITH DIMMABLE LED BULBS—ELIMINATING THE FLICKERING AND INSTABILITY. AFTER SIX YEARS OF RESEARCH, DESIGN, TESTING, AND CONTINUOUS IMPROVEMENT, WE'RE PROUD TO SAY THAT THIS PROBLEM HAS BEEN SUCCESSFULLY SOLVED.

TO ACHIEVE THIS BREAKTHROUGH, WE ESTABLISHED OUR PRODUCT RESEARCH AND DEVELOPMENT CENTER IN 2018. THERE, WE ENGINEERED A DIMMER SWITCH EQUIPPED WITH AN ERROR INDICATOR AND ELECTRONIC FUSE, CAPABLE OF MONITORING THE SWITCH'S STATUS AND AUTOMATICALLY REACTIVATING IT IN CASE OF FAILURE. WE ALSO ADDED MULTIPLE LAYERS OF PROTECTION, INCLUDING OVERCURRENT, OVERLOAD, SHORT-CIRCUIT, AND OVERHEAT PROTECTION. OUR NEW DIMMER SWITCHES ENABLE SMOOTH AND STABLE DIMMING, STARTING FROM A LOW BRIGHTNESS RANGE AND OFFERING A WIDE DIMMING SPECTRUM. MOST IMPORTANTLY, THEY ENSURE FLICKER-FREE AND FLASH-FREE PERFORMANCE. ALL MODELS ARE CERTIFIED AND HAVE PASSED STRICT EMC AND FCC REGULATIONS. WE OFFICIALLY LAUNCHED OUR REENGINEERED DIMMER SWITCHES IN 2018. TODAY, FREE LIGHTING PRODUCES OVER 740,000 DIMMER SWITCHES ANNUALLY, SERVING CUSTOMERS AROUND THE GLOBE WITH CONFIDENCE AND QUALITY.

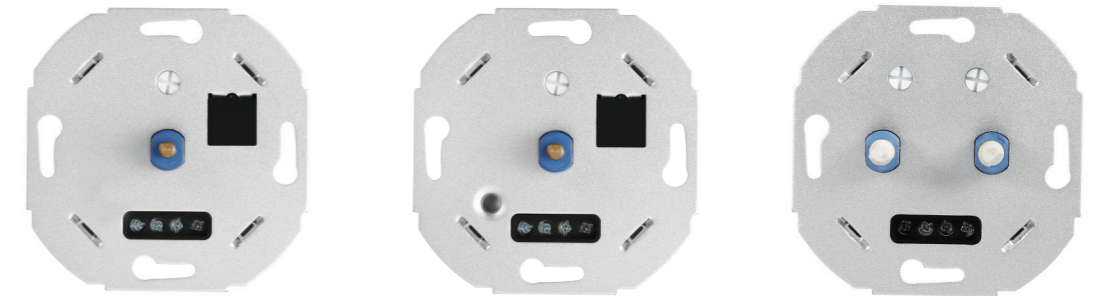


WALL DIMMER



- ▶ ERROR INDICATOR
- ▶ OVERLOAD PROTECTION
- ▶ OVERHEAT PROTECTION
- ▶ ELECTRONIC SHORT-CIRCUIT PROTECTION

DimmingMethod	R,C Trailing Edge
Dimensions	L71 x W71 x H43 mm
Weight	48 g
Switch/Control	One Way
Anti-Flicker Adjustment	Yes
Certification	CE, EMC
Warranty	3 Years

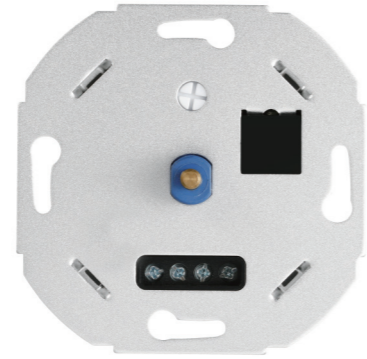


Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style	Error Indicator	Electronic short-circuit protection	Overload protection	Overheating protection	Soft Start	
QE-PA-200W-001	200-240V 50Hz	200W	2-100W	Push On/Off				✓		
QE-PA-350W-001		350W	2-175W		✓	✓		✓		
QE-PA-350W-002		350W	2-175W						✓	
QE-PA-350W-003		350W	2-175W		✓	✓	✓	✓	✓	✓
QE-PA-500W-002		500W	10-250W						✓	✓
QE-PA-700W-001		700W	10-350W						✓	✓
QE-PA-2*150W-001		2 x 150W	2 x 2-75W					✓		✓

QE-PA-2*150W-001, Weight 63g

Dimensions	L70.6 x W70.6 x H43.0mm
Weight	48 g
Anti-Flicker Adjustment	Yes
Certification	CE,EMC
Warranty	3 Years

QE-MC-250W-001 / R,C Trailing Edge/ Multi-Way
QE-PA-300W-001 / Leading and Trailing Edge



Model	QE-MC-250W-001	QE-PA-300W-001	QE-PA-300W-002	QE-PA-300W-003	QE-PA-DA-001
Dimming Method	R,C Trailing Edge	Leading and Trailing Edge			
Switch/Control	Multi-Way	One Way			
Working voltage	200-240V 50Hz				
Rated Watt	250W	300W			
Rated Watt (LED)	10-125W	10-150W			0-10VDC
On/Off Style	Push On/Off				
Dimming Profile	R,C	R,C	R,L,C	R,L,C	
Electronic short-circuit protection	✓		✓	✓	
Overload protection	✓	✓	✓	✓	
Overheating protection	✓	✓	✓	✓	
Loading auto detective	✓	✓	✓	✓	
Soft start	✓	✓	✓	✓	
Wifi Smart		✓			

DimmingMethod	R,C Trailing Edge
Dimensions	L63 x W27 x H25mm
Weight	35 g
Switch/Control	One Way
Anti-Flicker Adjustment	Yes
Adjustable Dimming Speed	NO
Certification	CE, EMC
Warranty	3 Years



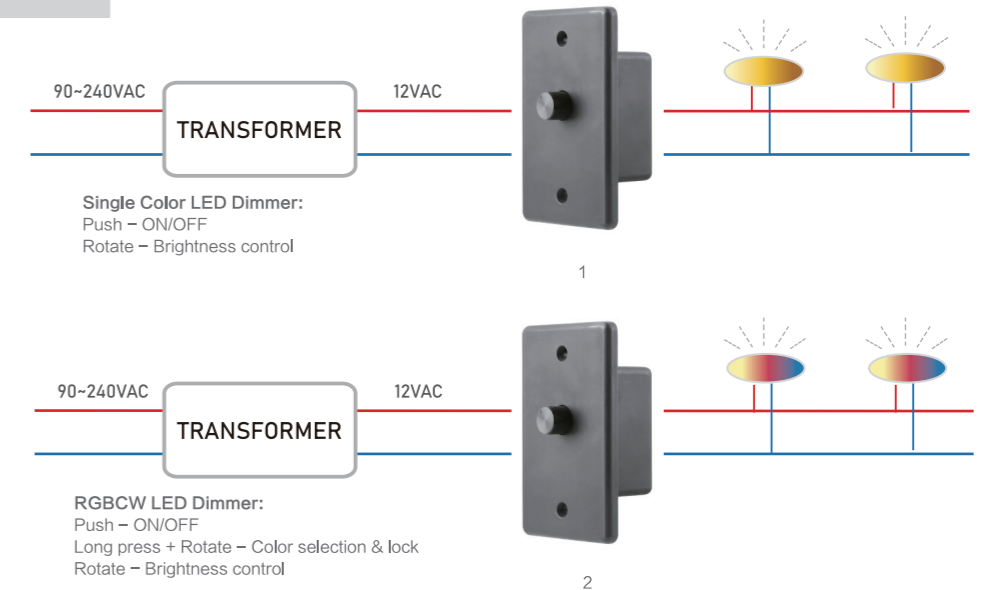
Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style	Electronic short-circuit protection	Overheating protection
QE-UK-200W-001	200-240V	200W	2-100W	Push On/Off	✓	✓
QE-UK-200W-002	50Hz	200W	2-100W		✓	✓

DimmingMethod	R,C Trailing Edge
Dimensions	L52 x W49 x H20mm
Weight	30 g
Switch/Control	One Way
Anti-Flicker Adjustment	Yes
Adjustable Dimming Speed	Yes
Certification	CE, EMC,ETL,FCC,SA
Warranty	3 Years



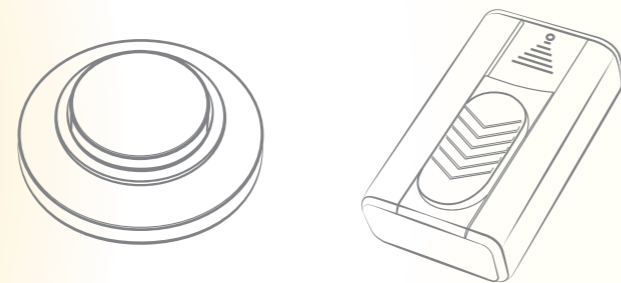
Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style	Error Indicator	Electronic short-circuit protection	Overheating Protection	Soft Start
QE-PU-200W-001	200-240V 50Hz	200W	2-100W	Push button interface	✓	✓	✓	✓
QE-PU-200W-001A	90-120V 60Hz	130W	2-65W	On/Off	✓	✓	✓	✓

Dimming Method	R,C Trailing Edge
Dimensions	L114 x W70 x H60mm
Weight	200g
Anti-Flicker Adjustment	Yes
Adjustable Dimming Speed	Yes
Certification	CE,EMC,ETL,FCC,SA
Warranty	3 Years



No.	Model No.	Voltage	Dimming Method	Rated Watt	On/Off Style	Overheating protection	Soft Start
1	QE-LC-120W-001	12V AC 60Hz	R,C Trailing Edge	120W	Push On/Off	✓	✓
2	OE-LC-120W-002		PLC	120W		✓	✓

FLOOR DIMMER



- ▶ ERROR INDICATOR
- ▶ OVERLOAD PROTECTION
- ▶ OVERHEAT PROTECTION
- ▶ ELECTRONIC SHORT-CIRCUIT PROTECTION

Dimming Method	R,C Trailing Edge
Dimensions	Ø83x 24 mm
Weight	59 g
Anti-Flicker Adjustment	Yes
Adjustable Dimming Speed	Yes
Certification	CE,EMC,ETL,FCC,SAA
Warranty	3 Years



Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style	Error Indicator	Electronic short-circuit protection	Overheating protection	Soft Start
QE-FT-200W-001	200-240V 50Hz	200W	2-100W	Push On/Off	✓	✓	✓	✓
QE-FT-200W-001A	90-120V 60Hz	130W	2-65W		✓	✓	✓	✓
QE-FT-50W-001	90-120V 200-240V	50W	2-25W				✓	✓

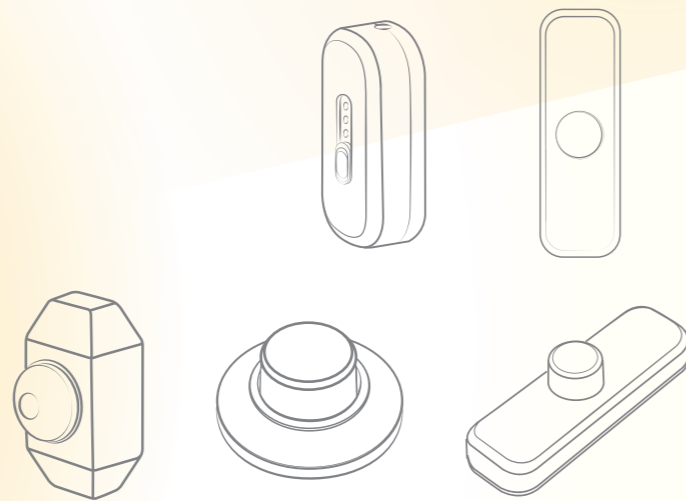
Dimming Method	R,C Trailing Edge
Dimensions	L60x W102x H36 mm
Weight	78g
Anti-Flicker Adjustment	Yes
Certification	CE,EMC,ETL,FCC,SAA
Warranty	3 Years



Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style	Error Indicator	Electronic short-circuit protection	Overheating protection
QE-FP-150W-001	200-240V 50Hz	150W	2-75W	Slide On/Off	✓	✓	✓
QE-FP-150W-001A	90-120V 60Hz	100W	2-50W		✓	✓	✓
QE-FP-50W-001	90-120V / 200-240V 50/60Hz	50W	2-25W				
QE-FPTF-50W-001	90-120V / 200-240V 50/60Hz OUTPUT = 12V AC	50W	2-25W				

CORD

DIMMER



- ▶ ERROR INDICATOR
- ▶ OVERLOAD PROTECTION
- ▶ OVERHEAT PROTECTION
- ▶ ELECTRONIC SHORT-CIRCUIT PROTECTION

Dimming Method	R,C Trailing Edge
Dimensions	L100xW32xH20 mm
Weight	44g
Anti-Flicker Adjustment	Yes
Adjustable Dimming Speed	Yes
Certification	CE,EMC,ETL,FCC,SA
Warranty	3 Years



Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style	Error Indicator	Electronic short-circuit protection	Overheating Protection	Soft Start
QE-HP-150W-001	200-240V 50Hz	150W	2-75W	Push On/Off	✓	✓	✓	✓
QE-HP-150W-001A	90-120V 60Hz	100W	2-50W		✓	✓	✓	✓
QE-HP-50W-001	90-120V / 200-240V 50/60Hz	50W	2-25W					

Dimming Method	R,C Trailing Edge
Dimensions	L100 x W32 x H37mm
Weight	49 g
Anti-Flicker Adjustment	Yes
Certification	CE, EMC, ETL, FCC, SAA
Warranty	3 Years



Model No.	Voltage	Dimming Profile	Rated Watt	Rated Watt (LED)	On/Off Style	Error Indicator	Electronic short-circuit protection	Overheating Protection	Soft Start	
QE-HR-150W-001	200-240V 50Hz	R,C	150W	2-75W	Push On/Off	✓	✓	✓	✓	
QE-HR-150W-003			150W	2-75W	Rotary On/Off	✓	✓	✓		
QE-HR-150W-004			150W	2-75W					✓	
WiFi QE-HR-150W-005			2-75W	Push On/Off	✓	✓	✓	✓		
QE-HR-150W-001A	90-120V 60Hz		100W	2-50W	Push On/Off	✓	✓	✓	✓	
QE-HR-150W-003A			100W	2-50W		✓	✓	✓		
QE-HR-150W-004A			100W	2-50W	Rotary On/Off				✓	
WiFi QE-HR-150W-005A			100W	2-50W					✓	
QE-HR-100W-001	90-120V 200-240V		R,L,C	50W	2-25W	Push On/Off	✓	✓	✓	✓
QE-HR-50W-001	50 / 60Hz		R,C	50W	2-25W	Rotary On/Off				

Dimming Method	R,C Trailing Edge
Dimensions	Ø83 x 33 mm
Weight	57 g
Adjustable Dimming Speed	Yes
Certification	CE,EMC,ETL,FCC,SAA
Warranty	3 Years



Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style	Error Indicator	Electronic short-circuit protection	Overheating Protection
QE-RR-150W 001	200-240V 50Hz	150W	2-75W	Rotary On/Off	✓	✓	✓
QE-RR-150W 002		150W	2-75W				✓
QE-RR-150W 001A	90-120V 60Hz	100W	2-50W		✓	✓	✓
QE-RR-150W 002A		100W	2-50W				✓

Dimming Method	R,C Trailing Edge
Dimensions	L67 x W33 x H34mm
Weight	35 g
Certification	CE, EMC, ETL, FCC, SAA
Warranty	3 Years



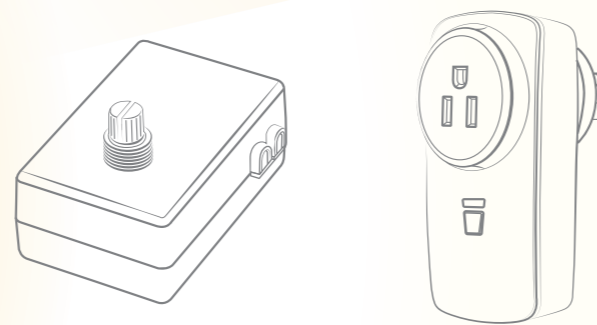
Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style
QE-MR-50W-001	90-120V/200-240V 50/60Hz	50W	2-25W	Rotary On/Off

Dimming Method	R,C Trailing Edge
Dimensions	L81 x W38 x H23mm
Weight	38 g
Certification	CE, EMC, ETL, FCC, SAA
Warranty	3 Years



Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style
QE-MP-50W-001	90-120V 60Hz	50W	2-25W	Slide On/Off

OTHER & TRANSFORMER DIMMER



- ▶ ERROR INDICATOR
- ▶ OVERLOAD PROTECTION
- ▶ OVERHEAT PROTECTION
- ▶ ELECTRONIC SHORT-CIRCUIT PROTECTION

Dimming Method	R,C Trailing Edge
Dimensions	L57 x W109 x H72mm
Weight	92 g
Certification	CE, EMC, ETL, FCC, SAA
Warranty	3 Years



Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style	Error Indicator	Electronic short-circuit protection	Overheating Protection	Soft Start
QE-PL-150W-001	200-240V 50Hz	150W	2-75W	Push On/Off	✓	✓	✓	✓
QE-PL-150W-001A	90-120V 60Hz	100W	2-50W		✓	✓	✓	✓
QE-PR-150W-001	90-120V 60Hz 200-240V 50Hz	100W	2-50W		✓	✓	✓	✓

Dimming Method	R,C Trailing Edge
Dimensions	L48 x W31 x H19mm
Weight	24 g
Certification	CE, EMC, ETL, FCC, SAA
Warranty	3 Years



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No.	Model No.	Voltage	Rated Watt	Rated Watt (LED)	On/Off Style
1	QE-LA-50W-001	90-120V 60Hz 200-240V 50Hz	50W	2-25W	Rotary On/Off
2	QE-LA-50W-002	12V AC 60Hz	50W	2-50W	
3	QE-LA-50W-003	200-240V 50Hz	50W	2-25W	

DIMMABLE ELECTRONIC TRANSFORMER

Dimensions	L73 x W37 x H24mm
Weight	78 g
Certification	CE,SAA
Warranty	3 Years



Model No.	Voltage	Output Voltage	Output Current	Rated Watt	Rated Watt (LED)	Overheating Protection
QE-TF-50W-001	200-240V 50Hz	12V AC	0-4.3A	50W	2-25W	✓

REMOTE DIMMING MODULE

Dimensions	L110 x W60 x H37mm
Weight	350 g
Certification	CE,EMC
Warranty	3 Years

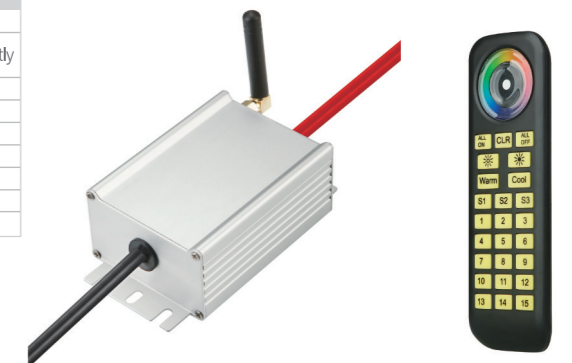


QE-RM-001-433

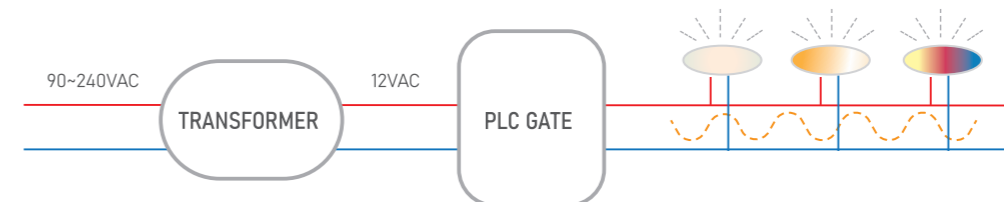
Model No.	Voltage	Rated Watt	Rated Watt (LED)	Control Way
QE-PM-120W-002	12V AC 60Hz	120W	3-70W 10A Max	433MHz RF
QE-RM-001-433				

POWER LINE CARRIER GATE

S/O	FREE LIGHTING	Other Brand
Principle	Power Line Carrier(PLC)	Wifi/Bluetooth/Zigbee
Working Mode	APP send instructions to each LED through PLC gate	APP send instructions to each LED directly
Pairing	Only PLC Gate	Each bulb
Trans-medium	Power line	Wireless
Distance	Same as wire length	About 10 meters
Stability	Good	Bad
Sensitivity	Response immediately	Response delay,easily off line
Price	LOW	Expensive
Size	Small, can be built-in bulb	Large, fit for External power source



QE-RM-001-2.4G



Model No.	Voltage	Rated Watt	Dimming	Color-temperature adjusting	RGB adjusting	Control Way
QE-PLG-120W-002	12V AC 50/60Hz	120W				2.4G
QE-PLG-120W-003	12V AC 50/60Hz	120W	✓	✓	✓	Tuya
QE-RM-001-2.4G						