

Specification

Product Name:

Sensor DIM LED Driver

Product Model:

MLC15C-PD MLC40C-PD

Versions	Release/ change Date	Reason	Publishing
V1.0	2024.02.23		James Guo

【Product Feature】

- Isolated two-stage circuit frame, full dimming and flicker-free.
- Support DIP switches to set the current gear
- Support 12V auxiliary power supply, with sensing split head can achieve integrated sensing function.
- Equip with PWM dimming control port.
- Suitable for various microwave sensors or wireless smart modules.

【Parameters】

Product series	MLC15C-PD	MLC40C-PD
Input		
Rated voltage	220-240V AC 50Hz/60Hz	
Stand-by power	≤0.5W (Equip with Merrytek 5.8Ghz sensing split head)	
Surge	1KV(L/N,EN61000-4-5)	
Power factor	≥0.9 (230V Max load)	
Input current	≤0.09A @230VAC full load	≤0.24A @230VAC full load
Inrush current	<25A (100us half-current) @230V AC	≤35A (100us half-current) @230V AC
Working efficiency	≥80% (230V Max load)	≥86% (230V Max load)
Output		
Working model	CC	
Type of load	LED	
Flick	≤5%	
Constant current accuracy	Constant current accuracy ±5%	
Auxiliary driver parameters	12VDC Current: 25mA Max	
No-load output voltage	60VDC Max	
Full load power	18W Max	40W Max
Load current	300mA / 350mA /400mA 450mA	850mA / 900mA / 950mA 1000mA / 1050mA
Load output voltage range	300mA / 27-42VDC 350mA / 27-42VDC 400mA / 27-42VDC 450mA /27-42VDC	850mA / 27 -42VDC 900mA / 27-42VDC 950mA /27-42VDC 1000mA /27-40VDC 1050mA /27-38VDC
Abnormality Protection Requirements		
Protection mode	Input overvoltage protection;	

	Input no-load protection no-load protection Input short circuit protection	
Environmental Requirements		
Operating temperature	Built-in: -25...+50℃	
Maximum shell temperature(Tc)	85℃	
Storage temperature/humidity	-40℃...+80℃ Humidity: ≤85% (non-condensation)	
Certificate Standards		
Certificate	CE、UKCA、SAA	
Environmental requirement	RoHS2.0, Reach requirement	
Safety standards(LVD)	EN61347-1, EN61347-2-13	
EMC standards	EN55015, EN61547, EN61000-3-2, EN61000-3-3	
Withstand voltage	Primary to secondary: 3.75KVAC Primary to ground :1.5KVAC	
IP Rating	IP20	
Product Category	Class II	
Others		
Wiring method	Press terminal, wire diameter: 0.5-1.0mm²	
Installation	Built-in	
Package	PE bag clapboard, carton (K=A)	
Net weight	82 ±5g	132 ±5g
Lifetime	5 years warranty@Ta 230V full load	

【Product Picture】



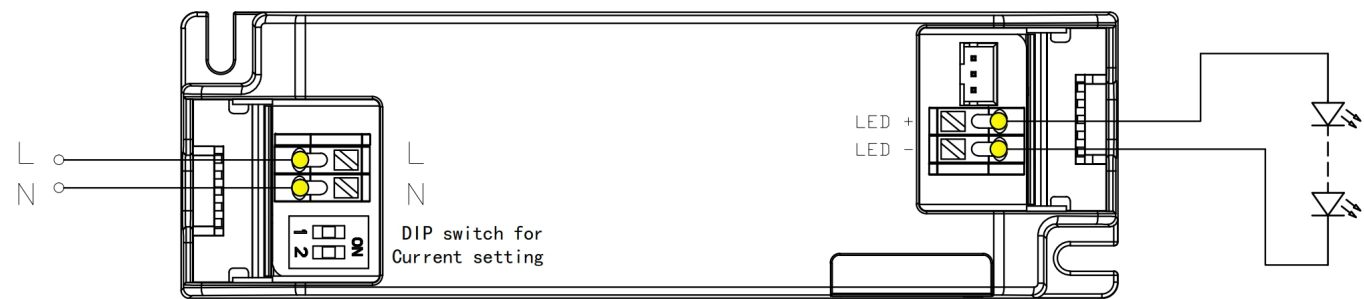
MLC15CC-PD



MLC40CC-PD

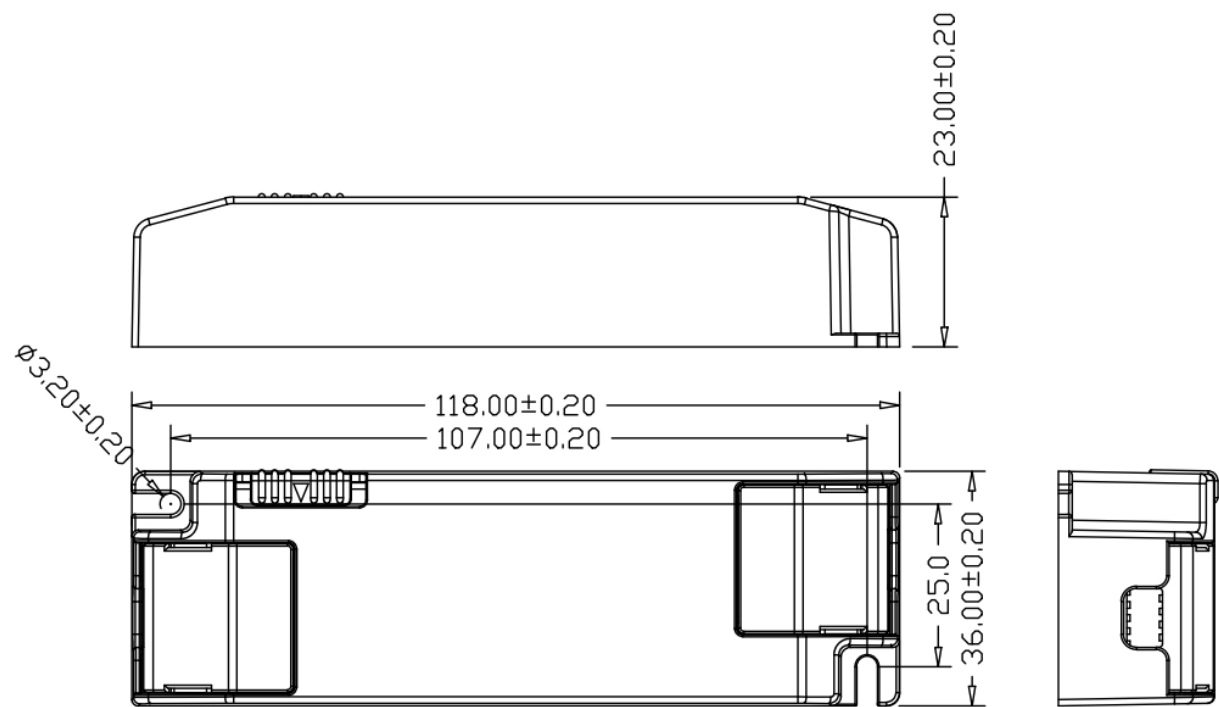
【Product Information】

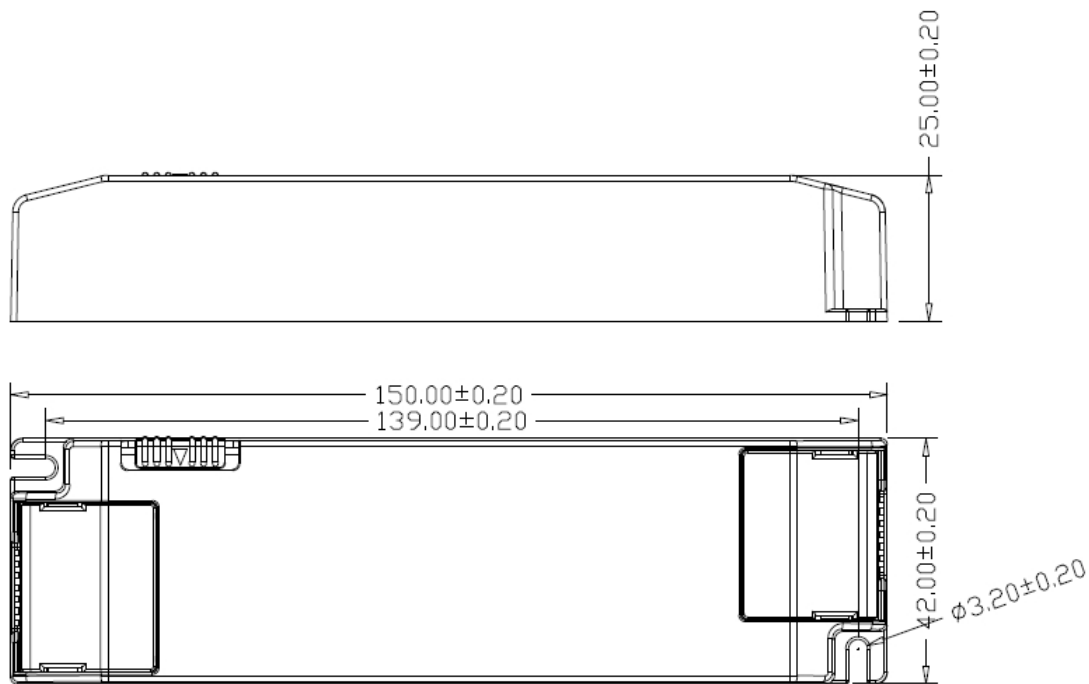
- Wiring and function



- Dimension (Unit: mm)

MLC15C-PD

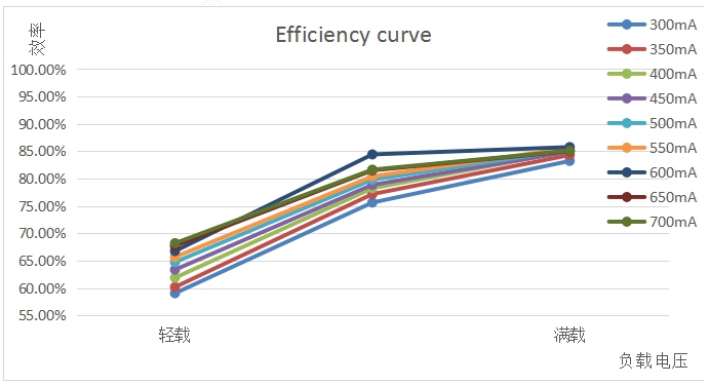
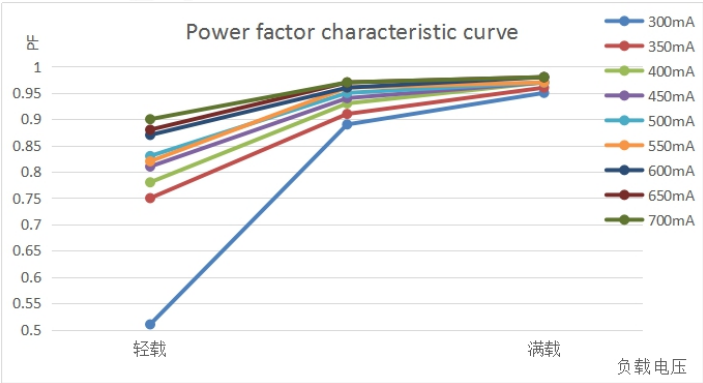




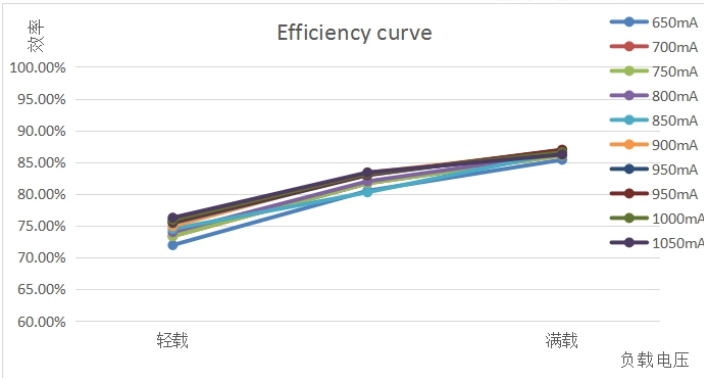
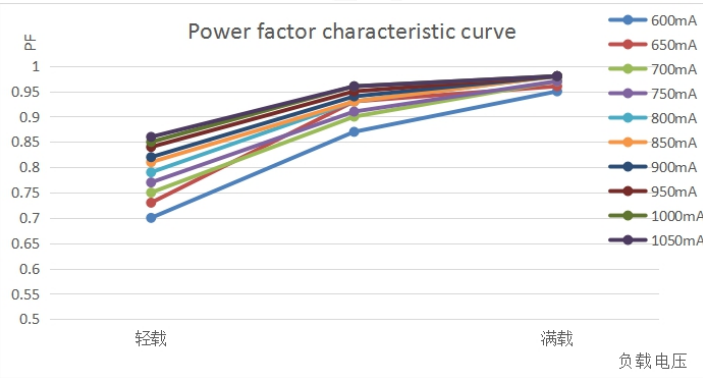
MLC40C-PD

【Parameter Curve】

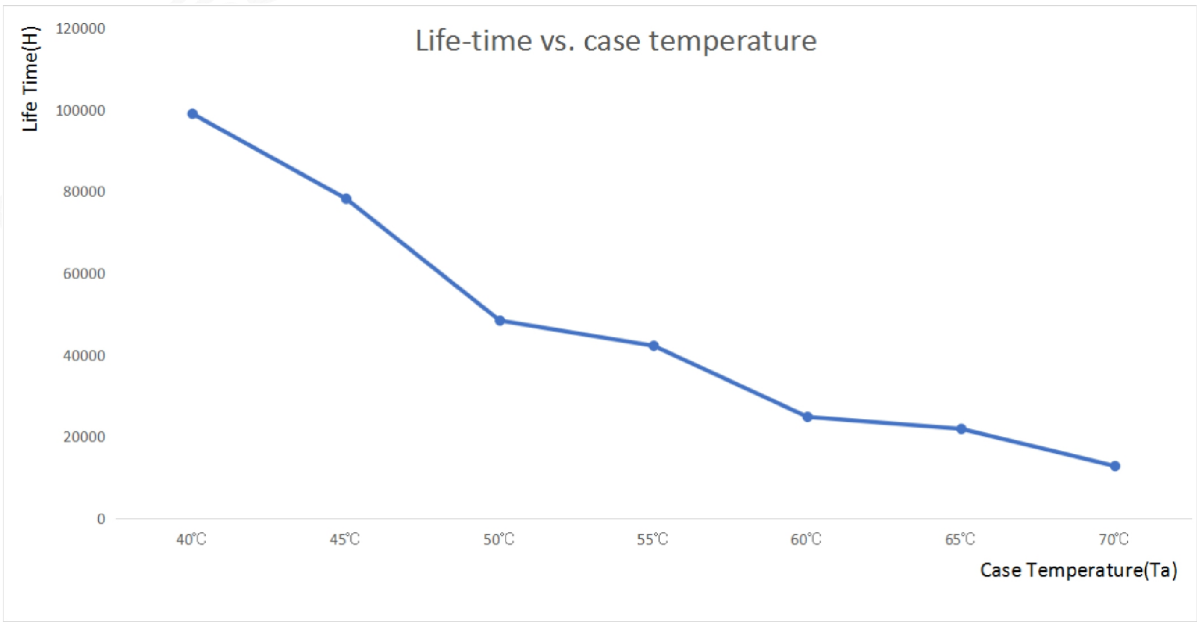
MLC15C-PD



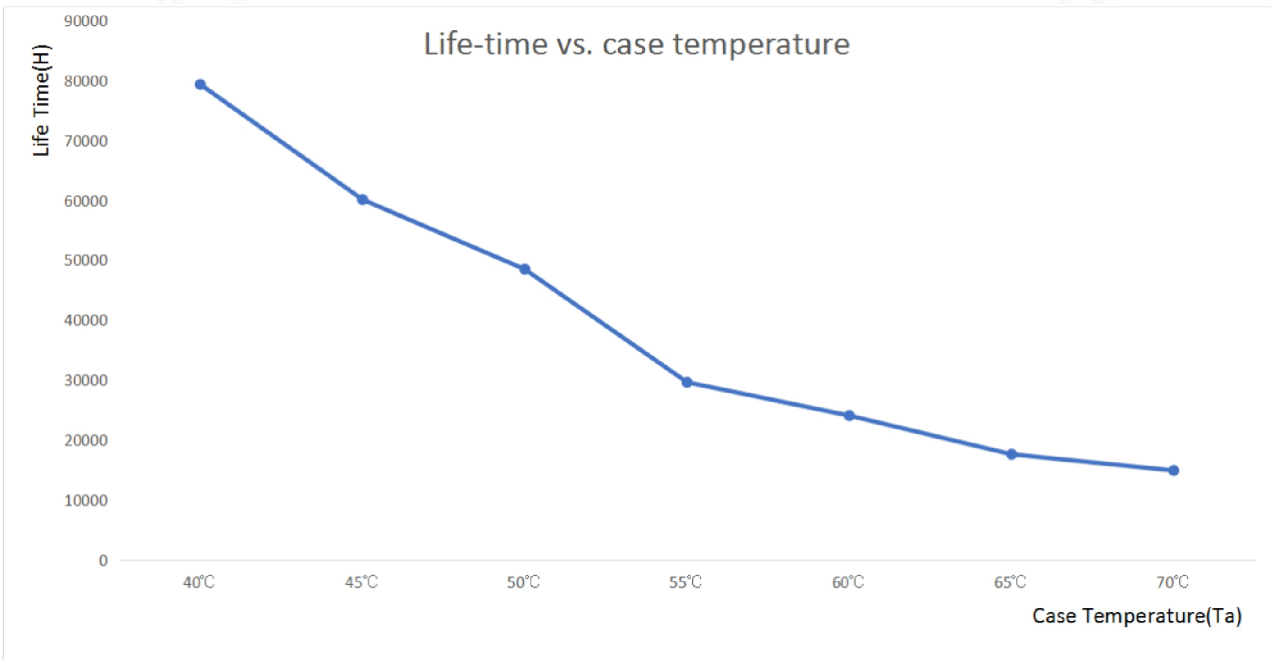
MLC40C-PD



Life Time Curve



MLC15C-PD



MLC40C-PD

【Output Current Setting】

● MLC15C-PD

Output current	Voltage range	S1	S2
300mA	27-42V	-	-
350mA	27-42V	-	ON
400mA	27-42V	ON	-
450mA	27-42V	ON	ON

● MLC40C-PD

Output current	Voltage range	S1	S2	S3
850mA	27-42V	-	-	-
900mA	27-42V	-	-	ON
950mA	27-42V	-	ON	ON
1000mA	27-40V	ON	ON	-
1050mA	27-38V	ON	ON	ON

【Initialization】

When powered on, it is steady on. When the sensor is configured, it changes according to the status of the sensor.

【Default Setting】

Adjust the corresponding current gear according to the order or customer demand.

【Application Notice】

- Please use this product in accordance with the specifications. Failure may occur if the product is used beyond the use conditions.
- The product should be installed by a professional electrician. Please turn off the power before installing, wiring, changing the setting of the DIP switches.
- The load LED string must be connected first, and then turn on the input power, otherwise it may damage the LED string.
- After the LED drive input is powered off, there will be residual voltage at the output end, which can be maintained for about 3 minutes.