

Specification

Product Name:

Sensor DIM LED Driver

Product Model:

MLC15CC-PD MLC40CC-PD



Versions	Release/ change Date	Reason	Publishing
V1.0	2024.02.23		James Guo
	6		





[Product Feature]

• Isolated two-stage circuit frame, full dimming and flicker-free.

• Support DIP switches to set the current gear; Slide Switches to select the CC/CW/WW

• 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	MLC15CC-PD	MLC40CC-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	Constant current accuracy ±5%					
accuracy						
Auxiliary driver						
parameters						
No-load output voltage	60VDC Max					
Full load power	18W Max	40W Max				
Load current	300mA / 350mA /400mA 450mA	850mA / 900mA / 950mA				
		1000mA / 1050mA				
		850mA / 27 -42VDC				
	300mA / 27-42VDC 350mA / 27-42VDC 400mA / 2742VDC 450mA / 27-42VDC	900mA / 27-42VDC				
		950mA /27-42VDC				
Load output voltage		1000mA /27-40VDC				
range		1050mA /27-38VDC				

Abnormality Protection Requirements



	Input overvoltage protection;				
Protection mode	Input no-load protection no-load protection				
	Input short circuit protection				
Environmental Requ	irements				
Operating temperature	Built-in: -25+50℃				
Maximum shell	85 ℃				
temperature(Tc)					
Storage	40° C + 90° C Humidity: < 95% (non-condensation)				
temperature/humidity					
Certificate Standards	5				
Certificate	CE、UKCA、SAA				
Environmental require	BollS2 0. Boach requirement				
ment	Kurisz.u, 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: 0.5-1.0mm ²				
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]





[Product Information]

• Wiring and function







[Parameter Curve]

MLC15CC-PD





MLC40CC-PD







Life Time Curve 120000 Life-time vs. case temperature Life Time(H) 100000 80000 60000 40000 20000 0 45°C **50°**C 55°C **65°**C 60°C 70°C 40°C Case Temperature(Ta) MLC15CC-PD 90000 Life-time vs. case temperature Life Time(H) 80000 70000 60000 50000 40000 30000 20000 10000 0 40°C 45°C 50°C 55°C 60°C 65°C 70°C MLC40CC-PD Case Temperature(Ta)



[Output Current Setting]

• MLC15CC-PD

Output current	Voltage range	S1	S2
300mA	27-42V	-	-
350mA	27-42V	-	ON
400mA	27-42V	ON	<u>_</u>
450mA	27-42V	ON	ON

• MLC40CC-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	<u> </u>
1050mA	27-38V	ON	ON	ON
	1		0))	



[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.