

# **SPECIFICATION**

Product Name:	Sensor DIM LED Driver			
Model No.:	MLC20C-PS2 / MLC40C-PS / MLC60C-PS			
Issue Date:	2022-12-29			
	CUSTOMER APPROVED			

PRODUCT DIRECTOR APPROVED	P&M APPROVED	R&D CHECKED	PREPARED
神建造	市建建	智慧	本孝东

Sensor DIM LED Driver



Version	Product No.	Updating Reason	Stage	Date
A0	MLC20C-PS2 MLC40C-PS MLC60C-PS	First version		2022-10-12
A1	MLC20C-PS2 MLC40C-PS MLC60C-PS	Update Sensor head		2022-12-29



### 1. Features



- Linear metal housing isolated dimmable LED drive, flicker-free, PWM dimming.
- 2. Multi current optional via DIPs, with PWM control interface.
- 3. Match different microwave sensors or wireless intelligent modules.
- 4. Meet CE/TUV/CCC/SAA certificates and ERP requirements.

### 2. Sensor head





MC137D A&B

MC131D A&B



MC068D





MC087D 1 MC087D RC







MC002D 6 MLC20C-PS1-1

### 3. Parameter

Prod	uct series	MLC20C-PS2 MLC40C-PS		MLC60C-PS			
Input current		≤0.13A @230VAC full load   ≤0.23A @230VAC full load   ≤0.32A		≤0.32A @230VAC full load			
	Rated voltage	220-240V AC 50Hz/60Hz					
	Stand-by power	≤0.5W					
	Power factor	≥0.95(@230V Max load)	≥0.95(@230V Max load) ≥0.95 (@230V Max load) ≥0.95 (@				
Input	Working efficiency	≥83% (@230V Max load) ≥85% (@230V Max load) ≥87% (@23		≥87% (@230V Max load)			
	THD	≤20%(@230V Max load)					
	Leak current		<0.5mA/240V				
	Inrush current	<15A (100us half-current)	≤20A (100us half-current)	≤30A (100us half-current)			
	inrusti current	@230V AC	@230V AC	@230V AC			
	Working model		CC				
	Type of load		LED				
	Flick		≤2%				
	Constant current	Constant current accuracy ±5%					
	accuracy						
	No-load output	60VDC Max	60VDC Max	70VDC Max			
	voltage	OOVEO Wax	OOV DO MICK				
	Full load power	20W Max	40W Max	60W Max			
Output		300mA/350mA :9-42V					
•		400mA/450mA/450mA:9-4					
	Load current	2V	450mA/500mA/550mA	500mA/550mA/600mA			
		500mA:9-40V	600mA/650mA/700mA	650mA/700mA/750mA			
	Load carrone	550mA:9-36V	750mA/800mA/850mA	800mA/850mA/900mA			
		600mA:9-32V	900mA	950mA/1000mA/1050mA			
		650mA:9-30V					
		700mA:9-28V					
	Load output	0.40\/.D0	0.45\/.D0	0.501/00			
	voltage range	9-42V DC 9-45V DC 9-56V DC					
	PWM control	DMM (0.0) (5.0)					
Interface	interface	PWM (3.3V 5V)					
IIILEIIALE	Connection mode	3pin terminal					
	of interface end	Spin terminal					

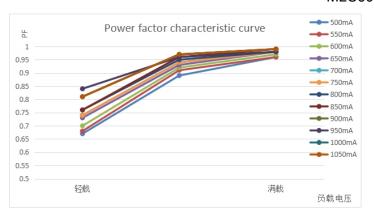


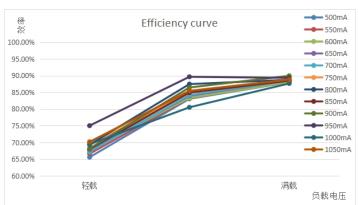
SENSING ME	RRY LIFE Senso	or DIM LED Driver MLC	20C-PS2 / MLC40C-PS / MLC6	0C-PS Version: A1			
Auxiliary	Voltage	8.5±1V					
driver							
parameter	Current	25mA max					
S							
	Input overvoltage	Yes, self-recovery					
Abnormalit	protection						
у -	Input no-load		Yes, self-recovery				
Protection	protection		•				
Requireme	Input						
nts	short-circuit prote		Yes, self-recovery				
	ction						
	Operating		-25+50°C				
Environm	temperature						
ental	Maximum shell	85℃					
requireme	temperature(Tc)						
nts	Storage temperature/humi	-40°C+80°C Humidity: ≤85% (non-condensation)					
	dity	-40 C∓00 C ⊓umidity. ≥00% (non-condensation)					
	Safety standards						
	(LVD)		EN61347-1, EN61347-2-13				
	EMC standards	EN55015,	EN55015, EN61547, EN61000-3-2, EN61000-3-3				
	Surge	L N: 1KV (different mode) L N to ground 2KV (common mode)					
		Primary to secondary:	Primary to secondary:	Primary to secondary:			
	Withstand voltage	3000VAC;	3000VAC;	3000VAC;			
		Primary to	Primary to	Primary to			
		ground :1500VAC	ground :1500VAC	ground :1500VAC			
0 (15) ( -	Environmental re	RoHS					
Certificate	quirement						
Standards	Certificate	CE \ SAA					
	Wiring method	Press terminal, wire diameter: 0.5-1.0mm <sup>2</sup>					
	IP Rating	IP20					
	Protection class	Class I					
	Installation	Built-in					
	Package	PE	bag clapboard, carton (K=A	١)			
	Installation size	195mm*30mm*20.5mm	195mm*30mm*20.5mm	243*30*21.5mm			
	Net weight	113.5±3g	140±3g	200±3g			
	Lifetime	5 ye	ears warranty@Ta 230V full le	oad			



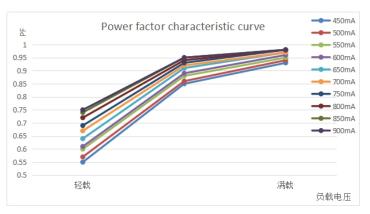
### 4. Product characteristic test

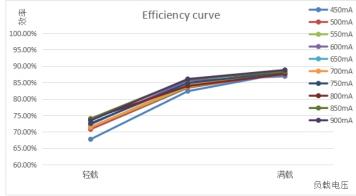
#### MLC60C-PS



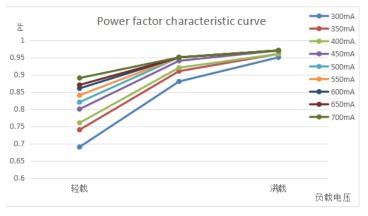


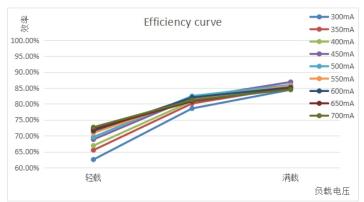
#### MLC40C-PS





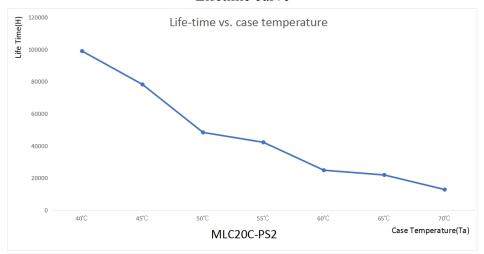
### MLC20C-PS2

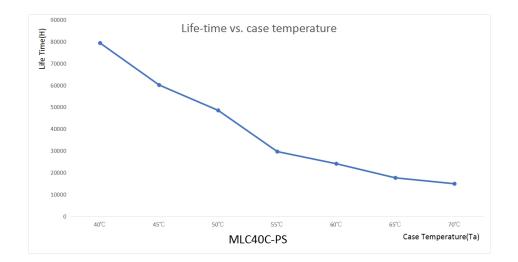


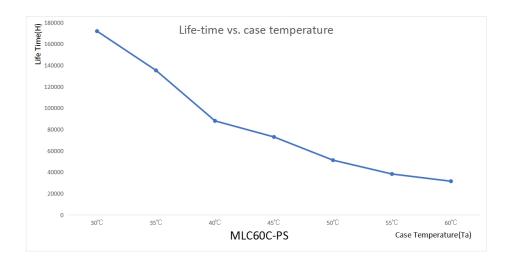




#### Lifetime curve

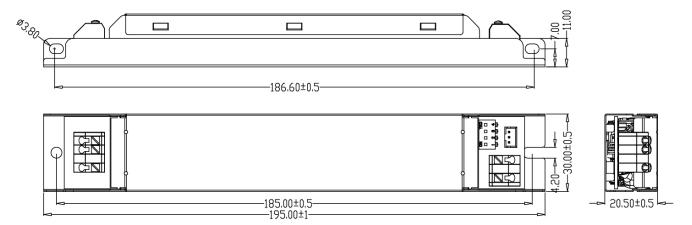




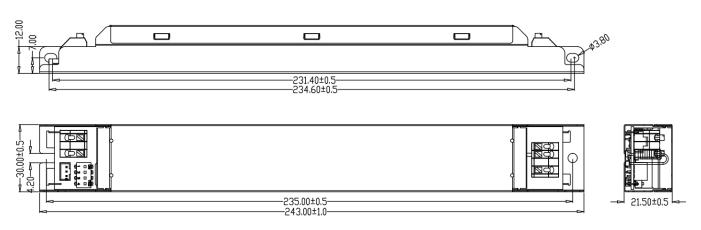




# 5. Dimension (mm)



MLC20C-PS2 MLC40C-PS



MLC60C-PS

# 6. Wiring





### 7. Structure



# 8. DIP Switch Setting

### MLC60C-PS current gear settings

	-				
I rated (CC)	Load voltage	S1	S2	S3	S4
500mA	9-56V	-	-	-	-
550mA	9-56V	-	-	-	ON
600mA	9-56V	-	-	ON	-
650mA	9-56V	-	-	ON	ON
700mA	9-56V	-	ON	ON	ON
750mA	9-56V	-	ON	ON	-
800mA	9-56V	-	ON	ON	ON
850mA	9-56V	ON	-	ON	ON
900mA	9-56V	ON	-	ON	ON
950mA	9-56V	ON	ON	-	ON
1000mA	9-56V	ON	ON	ON	-
1050mA	9-56V	ON	ON	ON	ON



### MLC40C-PS current gear settings

I rated (CC)	Load voltage	S1	S2	S3	S4
450mA	9-45V	-	-	-	-
500mA	9-45V	-	-	-	ON
550mA	9-45V	-	-	ON	-
600mA	9-45V	-	-	ON	ON
650mA	9-45V	-	ON	-	ON
700mA	9-45V	-	ON	ON	-
750mA	9-45V	-	ON	ON	ON
800mA	9-45V	ON	ON	-	ON
850mA	9-45V	ON	ON	ON	-
900mA	9-45V	ON	ON	ON	ON

### MLC20C-PS2 current gear settings

I rated (CC)	Load voltage	S1	S2	S3	S4
300mA	9-42V	-	-	-	-
350mA	9-42V	-	-	-	ON
400mA	9-42V	-	-	ON	-
450mA	9-42V	-	-	ON	ON
500mA	9-40V	-	ON	ON	-
550mA	9-36V	-	ON	ON	ON
600mA	9-32V	ON	-	ON	ON
650mA	9-30V	ON	ON	ON	-
700mA	9-28V	ON	ON	ON	ON

### 9. Initialization

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



# 10. Factory Setting

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

Sensor DIM LED Driver

## 11. Application Notice

- 1. Please use this product in accordance with the specifications. Failure may occur if the product is used beyond the use conditions.
- 2. The product should be installed by a professional electrician. Please turn off the power before installing, wiring, changing the setting of the DIP switches.
- 3. 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.