

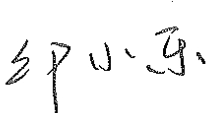
SPECIFICATION

Product Name: Daylight Harvesting Driver

Model No.: MLC40C-PA2

Issue Date: 2018-12-12

CUSTOMER APPROVED

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
			

Shenzhen Merrytek Technology Co.,Ltd

Add: 2nd and 3rd floor, NO.3 Building, 380 Xiangshan Avenue, Luotian, Yanluo, Baoan, Shenzhen, 518127, China

Tel: +86 (0)755-2305 7253

Fax: +86 (0)755-2786 3012

Website: www.merrytek.com

1. Features



- Daylight harvesting function, automatically adjust the brightness according to the natural light of external environment.
- Double input L N E terminal , easy for the user to connect.

2. Parameter

Input	Operating voltage range	198-264V AC 50Hz/60Hz
	Rated voltage	220-240V AC 50Hz/60Hz
	Input Current	0.5A
	Input Inrush Current	25A (50% I_{peak} , $t_{width}=500\mu S$, 230Vac full load, cold start);
	Power Factor	≥ 0.9
	Idle load Power	$\leq 1.8W$
	Stand-by Power	$\leq 1.8W$
	Working efficiency	85% Max.
	Surge test	L N: 1KV
Output	Operating mode	Constant current
	Load type	LED
	Type of Load	40W
	Flicker requirements	☐ Flicker free (Ripple requirement:) ☒ Flicker
	No-load output voltage	52V DC
	Load output current	700mA(30-48V)/750mA(30-48V)/800mA(30-48V)/850mA(30-48V)/900mA(30-46V)/950mA(30-40V)/1000mA(30-40V)/1050mA(30-40V)
	Load output voltage	30-48V DC
	Constant current/voltage accuracy	Constant current $\pm 5\%$
Sensor Parameters	Daylight harvesting	100Lux/150Lux/200Lux/250Lux/300Lux/350Lux/400Lux/450Lux
	Mounting height	2.5-3m
Abnormal Protection Requirements	Output overload protection	Yes
	Output over-temperature protection	Yes
	Output short circuit protection	Yes
Operating Environment	Operating temperature/humidity	-25℃...+45℃
	Storage temperature/humidity	85℃
	Case Max. Temp(T_c)	-40℃...+80℃ humidity:85% (Non-condensing)
Certificate	Withstand voltage	3750V AC 5mA 60S (Input“L N”– output“SEC+ SEC- 1-10V ”)

Shenzhen Merrytek Technology Co.,Ltd

Add: 2nd and 3rd floor, NO.3 Building, 380 Xiangshan Avenue, Luotian, Yanluo, Baoan, Shenzhen, 518127,China

Tel: +86 (0)755-2305 7253

Fax: +86 (0)755-2786 3012

Website: www.merrytek.com

Standards	Safety standard	EN61347-1, EN61347-2-13, EN60598-1, EN60598-2-6
	EMC standard	EN55015, EN61000-3-2, EN61000-3-3, EN61547
	Environmental protection requirements	Compliant to RoHS
	Certification	CE
Others	Input/output(terminal/wiring) type	0.75-1.5mm ²
	IP rating	IP20
	Protection class	Class II
	Installation type	Independent installation
	Installation dimension	202X58X30mm
	Package	Bubble bags+ Clapboard +Outer Carton (K=A)
	Net weight	222.5g
	Lifespan	50000h @Ta 230V full load

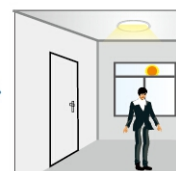
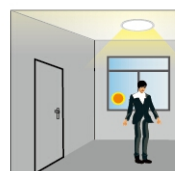
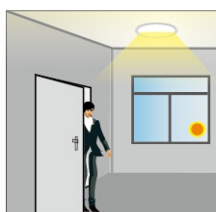
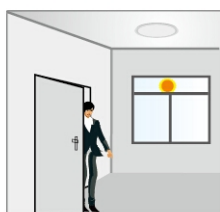
Note:

1. "N/A" means not available.

2. Detection area is affected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

3.Function

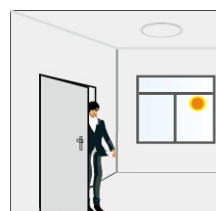
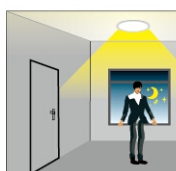
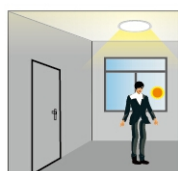
1)Daylight Harvesting



① When the ambient light is higher than the present illumination level, the light will not be switched on.

② When the ambient light level is below the present illumination level, the light will be switched on.

③ The light dims to maintain the present illumination level against the natural ambient light.



④ When there is sufficient ambient light, the light will be switched off.

Shenzhen Merrytek Technology Co.,Ltd

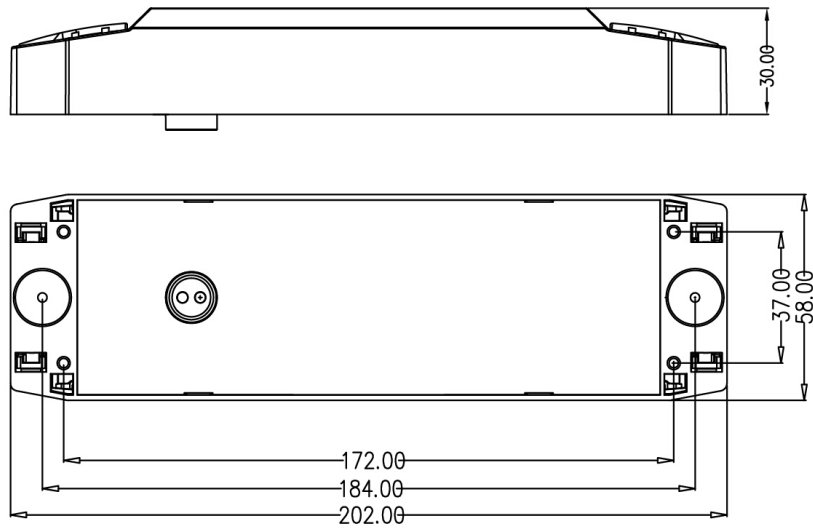
Add: 2nd and 3rd floor, NO.3 Building, 380 Xiangshan Avenue, Luotian, Yanluo, Baoan, Shenzhen, 518127,China

Tel: +86 (0)755-2305 7253

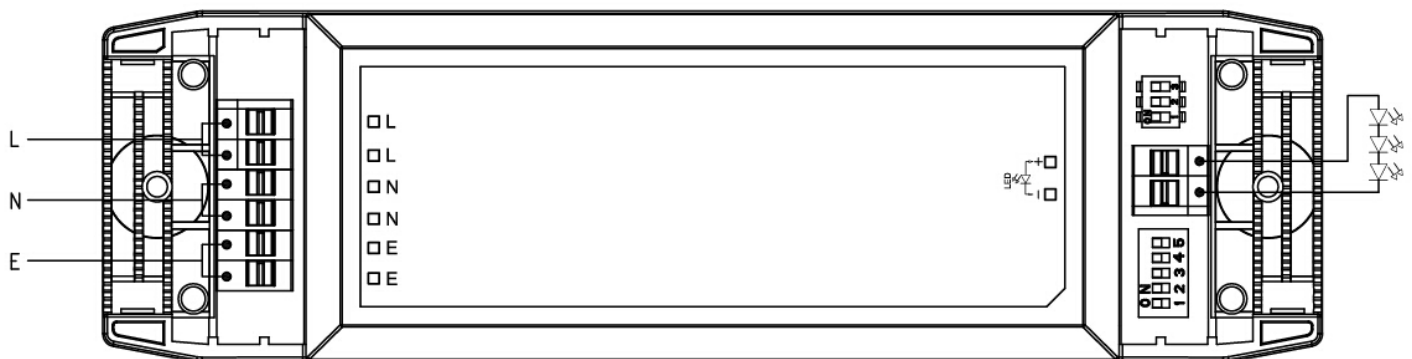
Fax: +86 (0)755-2786 3012

Website: www.merrytek.com

4. Dimension (mm)

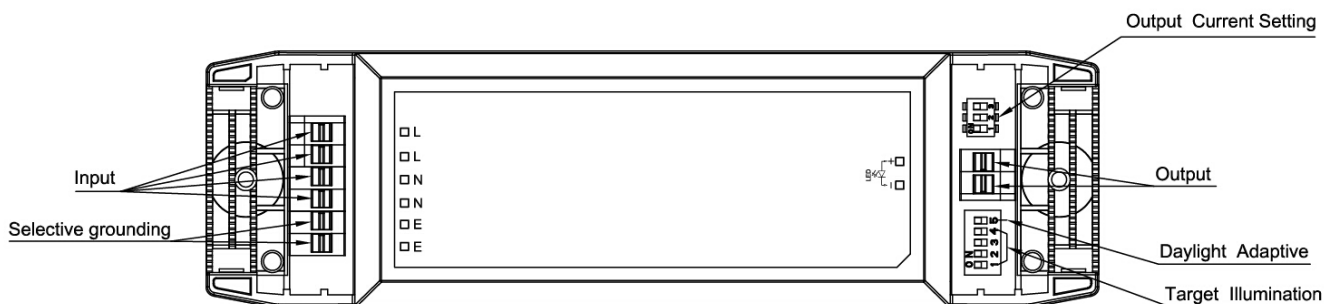


5. Wiring



*The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

6. Structure



Shenzhen Merrytek Technology Co.,Ltd

Add: 2nd and 3rd floor, NO.3 Building, 380 Xiangshan Avenue, Luotian, Yanluo, Baoan, Shenzhen, 518127, China

Tel: +86 (0)755-2305 7253

Fax: +86 (0)755-2786 3012

Website: www.merrytek.com

8. DIP Switch Setting

1) Target Illumination

Target Illumination (SW1)				
	1	2	3	4
450Lux	ON	ON	ON	ON
400Lux	ON	ON	ON	-
350Lux	ON	ON	-	ON
300Lux	ON	ON	-	-
250Lux	ON	-	ON	ON
200Lux	ON	-	-	-
150Lux	-	ON	ON	-
100Lux	-	-	-	-

2) Daylight Adaptive

	5	
I	ON	Active*
II	-	Disable*

*The product can achieve daylight adaptive control when the DIP switches to Active.

*The product works as normal driver when the DIP switches to Disable.

3) Output Current Setting

Output Current Setting(SW2)			
	1	2	3
1050mA/30-40V	ON	ON	ON
1000mA/30-40V	ON	ON	-
950mA/30-40V	ON	-	ON
900mA/30-46V	ON	-	-
850mA/30-48V	-	ON	ON
800mA/30-48V	-	ON	-
750mA/30-48V	-	-	ON
700mA/30-48V	-	-	-

9. Factory Setting

Output Current Setting:700mA; Target Illumination: 450Lux

10. Application Notice

1)The output current must be compatible with the actual lamp to avoid to damage the lamp.

11. Version Change

Version	Date	Description
A0	December 12, 2018	Released new product