

Specification

Product Name: DC Controller

Product Model: MC642V series

Version	Release/ Change Date	Reason	Released by
V1.0	2023.08.28		James Guo

【Product Feature】

- Adopting isolated circuit design to provide 12V DC power supply for the DC controller, with a maximum current of 100mA.
- Multiple auxiliary power supply interfaces are available, input/output connection terminals easier for user wiring.
- Match use with Merrytek sensor, can realize ON/OFF function, two-step/three-step dimming function, and daylight priority function.
- Auxiliary power supply driver with internal/external installation, can match a variety of lamps

【Parameters】

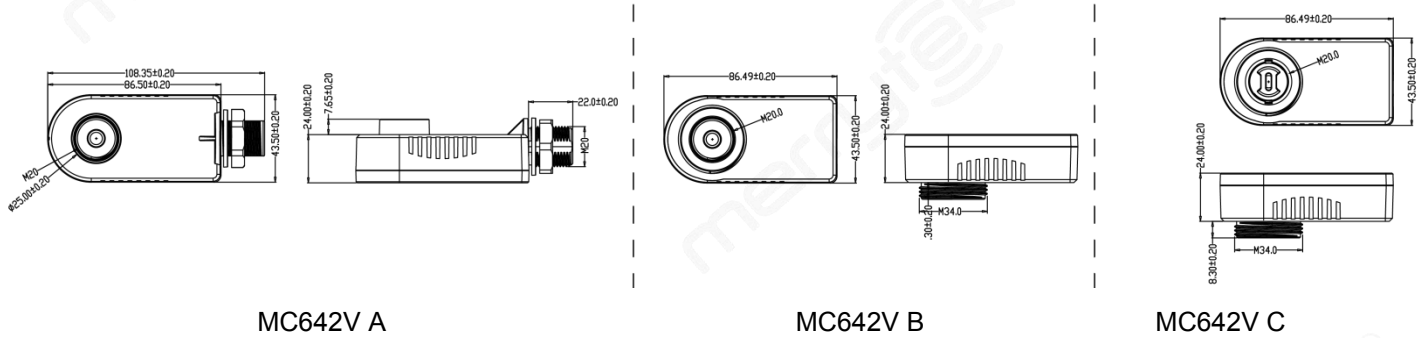
Input			
Rated Voltage	120/277V AC 50/60Hz		
Stand-by Power	≤0.5W		
Surge Test	1KV(L/N,EN61000-4-5)		
Output			
DC Output	12VDC 100mA(Max)		
Load Type	400W@230Vac(Inductive Load), 800W @230Vac(Resistive Load)		
Load Surge Current	30A(@ 50% Ipeak, twidth 500us @230Vac full load & start at cold load.)		
	60A(@ 50% Ipeak, twidth 200us @230Vac full load & start at cold load.)		
Interface			
Dimming Interface	3.5mm Earphone interface / Tpye-C port		
Environment			
Operating Temperature	-25~60℃		
Storage Temperature	-40℃...80℃, humidity≤85%（Non-condensing）		
Certificate Standards			
Certification	UL CE		
Environmental Requirement	Compliant to RoHS 2.0, Reach		
Safety (LVD) standard	EN61058-1-2, EN61058-1		
EMC Standards	EN61058-1,EN61000-3-2,EN61000-3-3,EN62479, EN301489-1, EN55015, EN300440		
IP Rating	IP65（match waterproof lamp）		
Product classification	Class II		
Others			
Wiring	Lead wire		
	Input: 18AWG(N: White L: Black)		
	Output: 24AWG（+: Purple -: Pink）		
	Lead wire with 300mm long		
Installation	Side mounting / Built-in installation		
Package	Bubble bag + cardboard + outer carton（K=A）		
Net Weight	A	B	C
	98±3g	90±3g	90±3g
Lifetime	5 years warranty@Ta 230Vac full load		

【Product Options】

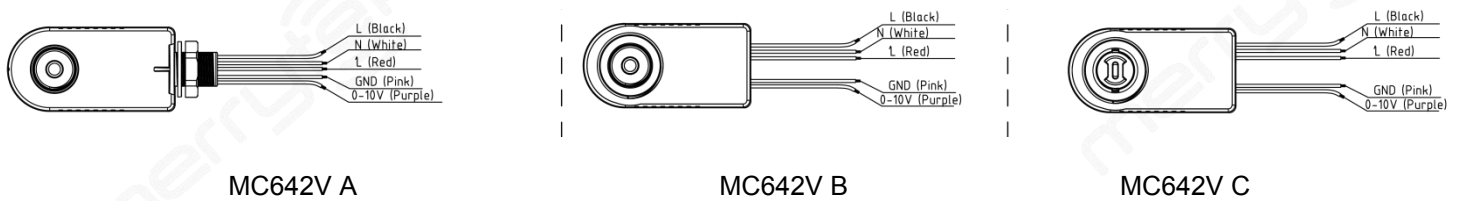
MC642V A	MC642V B	MC642V C
Earphone interface, External side mounting	Earphone interface Built-in installation	Type C port, Built-in installation

【Diagram】

● Size



● Wiring



Note:

This product is designed to only connect to one AC load. Connecting more than one load may cause damage.

【Application Notice】

- Sensor should be installed by a professional electrician. Please turn off power before installation.