





LED Ceiling Light

AL12B-E/S/M/SC3 Series





Introduction

This ceiling light is a super slim design—48mm. High lumen SMD LED and lighter weight fire-rated material to ensure better heat resistance and corrosion resistance. The color is interchangeable within 3000k, 4000k and 5700k by slide switch, also dimmable with triac dimmers. Multi-functional design shares great popularity.

Features

- High lumen efficiency
- Interchangeable CCT(3000/4000/5700k) with slide switch
- IP54 in front
- Triac dimming
- Internal driver
- Multiple functions as below:
- E: Emergency
- S: Microwave sensor / Daylight Sensor+Microwave sensor
- M: Emergency+Sensor SC3: Microwave sensor with interchangeable CCT

Application Areas

It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc





Technical Data Sheet

Code No.			AL12B-10-12W	AL12B-12-18W	AL12B-12-25W	AL12B-14-25W			
Dimension(mm)		250*250*50mm	250*250*50mm 300*300*50mm 300*300*50mm		350*350*52mm				
Cutout (mm)			-						
Watt(W)			12W	18W	25W	25W			
Rated Input V	oltage(V)		AC100-240V AC230V						
Input Voltage(V)			AC85-265V AC200-240V						
LED Module Input			-						
Light Source			SMD						
SDCM			<6 (@3000K 4000K 5000K)						
CCT(K)			1-CCT: 3000K/4000K/5000K/5700K 3-CCT: 3000K + 4000K + 5700K						
CCT Selection	DIP Switch		YES						
	Non-DIM	1-CCT	1150~1350	1700~2050	2400~2700	2580~3000			
Luminous	DIM	1-001	1140~1300	1650~2050	2250~2690	2450~2990			
Flux (Im) ±5%	Non-DIM	3-CCT	1160~1350	1700-2100	2400-2720	2580-3100			
	DIM	3-001	1150~1330	1660~2050	2450~2600	2480~3000			
CRI			80						
Beam Angle (°)			120°						
UGR			-						
LED Driver			Built-in						
Dimming Option			Triac						
Sensor			Yes						
Emergency Ki	ts		Yes						
Electrical Clas	is		Class II						
ngress Protec	tion (IP Ratin	ıg)	IP54						
Impact Resistance (IK Rating)			IK10						
Product Finish	ng(Base)		White RAL9016						
Materials of Optics			PC						
Materials of Housing			PC						
Lifetime (hr)			40,000h @ L70B50						
Glow wire test (°C)			750°C (Cover) 850°C (Lamp Base)						
Operating Temp. (°C)			-20℃ ~45℃						
Storage Temp. (°C)			-20℃ ~65℃						
Installation			Surface mounted						



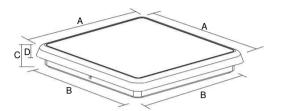












Measurement

Dimension(mm)					Product V	Veight (Kg) Package	e weight (Kg)	Carton Size(cm) G	ty/CTN	20GP	40HQ	
			С	D		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN			(pcs)	(pcs)
AL12B-10-12W	250	220	50	28.9	250*250*50	0.85	0.95	17	20.2	60*53.5*28.5	20	6080	14400
AL12B-12-18W	300	270	50	30	300*300*50	1.25	1.38	12.5	15	61*32.5*33.5	10	3780	9310
AL12B-12-25W	300	270	50	30	300*300*50	1.25	1.38	12.5	15	61*32.5*33.5	10	3780	9310
AL12B-14-25W	350	320	52	31.4	350*350*52	1.42	1.62	14.2	19.22	63*38*38	10	3240	7130

Driver Datasheet (Non-dimmable)

I	otal load wattage	12W	18W	25W			
Output	Output Voltage range	DC60-80V	DC60-80V	DC60-75V			
	Rated output current	150mA	230mA	325mA			
	Line Regulation	±5%					
	Setup, Rise Time	<1\$					
	Flickering Index		-				
	Input Voltage		AC85-265V				
	Rated Input Voltage(V) AC100-240V						
	Frequency	50/60Hz					
	Input Current	≤0.16A	≤0.24A	≤0.33A			
Input	Rated Input Current	≤0.14A	≤0.2A	≤0.28A			
	Power Factor	0.9					
	THD	-	- <20% @230V				
	Efficiency	≥88%					
	No load wattage	<1W					
	Short circuit protection	Pass					
Protection	Over voltage protection	Pass					
	Over temperature protection	Pass					
	Withstand voltage	-					
Safety &EMC	Isolation Resistance	-					
	Surge	IEC61000-4-5(L-N:0.5KV) IEC61000-4-5(L-N:1KV)					
	EMC Emission		EN55015, EN61000-3-2				
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11; EN61547	547			

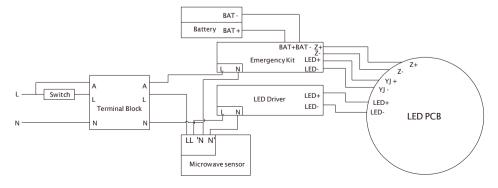
Driver Datasheet (Sensor S)

Sensor datasheet				
Operating Voltage	DC7-12V			
Power consumption	0.5W±0.2W			
Microwave frequency	5.8GHz±75MHz, ISM wave band			
Transmission power	<0.5mW			
Detection angle	140°			
Detection Area	5-7M			
Hold fime	30\$			
Daylight sensor	10Lux			
Stand-by DIM Level	-			
Stand-by Period	=			
Dimming Range	-			
Microwave ON/OFF function	-			
Installation Height	Recommended Installation Height: Wall mounted height 1.8m. Ceiling mounted height 3m.			
Operating temperature(°C)	-20℃ ~60℃			

Driver Datasheet (Emergency)

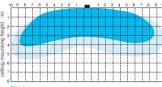
Power	3W			
Rated Input Voltage(V)	AC230V			
Frequency	50/60Hz			
Input Voltage	AC200-240V			
Total load wattage	3W±0.5W			
Rated Input Current	≤0.03A			
Battery	6.4V 1500mAh (LiFePO4)			
Lifetime	Over 2000 cycles			
Battery duration	≥3hrs			
Charge Period	≤24hrs			
Emergency switching time	≦ 1S			

Wiring Diagram:



Sensor Detection Pattern

eiling Mounting pattern (Unit: m)



High detection area .ow detection area

Daylight & Microwave Sensor

Detection area:

◆ 140 degree wide detective beam angle with 5~7 meters distance.

Working pattern:

◆ With sufficient natural light, when illuminance is more than 10lux, the light does not switch on when presence detected.

With insufficient natural light:

- When illuminance is less than 10lux, the light switches on automatically when presence detected.
- With presence detected, light will never switch off, even the nature light is sufficient.
- After presence left, any movement detected within time-delay (30 seconds), the light will continuously work for another hold time (30 seconds), then switch off automatically until next movement detected.
- Hold time: 30S

Microwave Sensor

Detection area:

lacktriangle 140 degree wide detective beam angle with 5~7 meters distance.

Working pattern:

- ◆ In any given lighting condition, the light switches on automatically when presence detected.
- ◆ After presence left, light will continuously work within time-delay (30 seconds), then switch off automatically.
- After presence left, any movement detected within time-delay (30 seconds), the light will continuously work for another hold time (30 seconds), then switch off until next movement detected.
- ◆ Hold fime: 30S

Installation Procedure

WARNING M

1.Switch off before installation.

2.Switch on only after complete installation and examination of the circuit.

3. Professional electrician for installation and maintenance only.



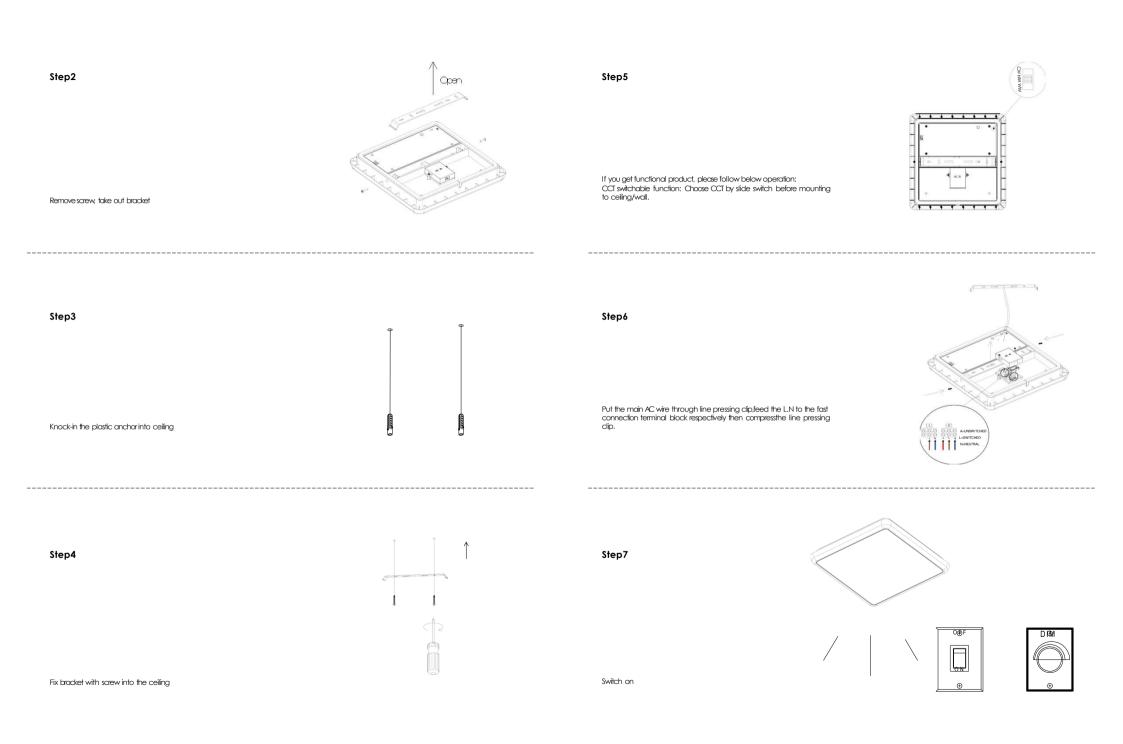


Step1





Take out ceiling light and accessory pack from box.















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