

LCM-60 IOT Series





Features

- · Constant Current mode output with multiple levels selectable by dip switch
- Flicker free design
- Plastic housing with class II design
- Temperature compensation function by external NTC
- Functions: Bluetooth low energy mesh Synchronization up to 10 units
- 3 years warranty

 LED indoor lighting LED office lighting

- LED panel lighting
- LED commercial lighting
- Intelligent lighting control

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

LCM-60 IoT series is a 60W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and integration with Bluetooth control solution.LCM-60 IoT operates from 180~295VAC and offers different current levels ranging between 500mA and 1400mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -20 $^{\circ}$ C ~+90°C case temperature under free air convection. In addition, LCM-60 IoT is designed with freely assignable input and synchronization function, so as to provide the optimal design flexibility for LED lighting system and upgrade lighting to be an intelligent lighting system.

Model Encoding AUX LCM - 60 BLE Auxiliary power output(option) Built-in wireless module brand and solution Output wattage Series name

IoT wireless Module brand and solution

Brand	Solution	Wireless standard	Note	
Casambi	BLE	Bluetooth low energy mesh 2.4GHz protocol	By request	
Tuya	TY1	Bluetooth low energy mesh 2.4GHz protocol	By request	
Silvair	SVA	Bluetooth low energy mesh 2.4GHz protocol	By request	

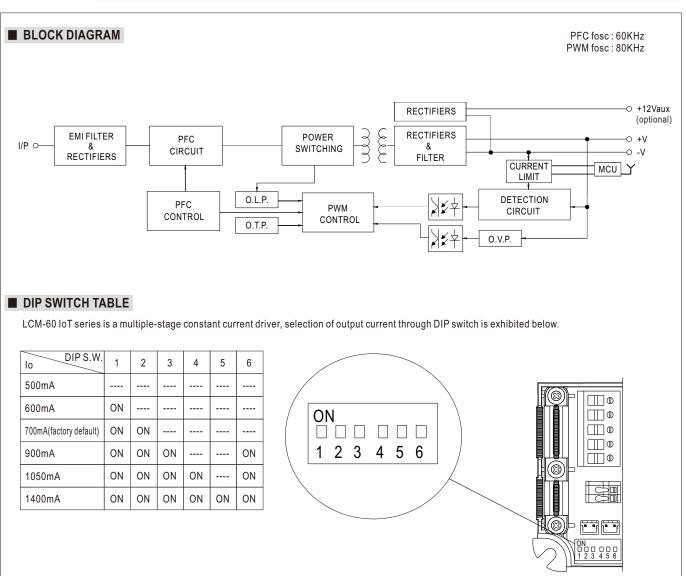


SPECIFICATION

MODEL		LCM-60							
			oblo vio DIP owito	h, please refer to"DIP SW		ion			
	CURRENT LEVEL						1400		
	RATED POWER	500mA 60.3W	600mA	700mA(default)	900mA	1050mA	1400mA		
	DC VOLTAGE RANGE	2~90V	2 - 001/	2~86V	2~67V	2~57V	2 - 421/		
OUTPUT			2~90V	2~80V		2~57V	2~42V		
	OPEN CIRCUIT VOLTAGE (max.)	95V			73V				
	CURRENT RIPPLE Note.5	5.0% max. @rated	current						
		±5%							
	AUXILIARY DC OUTPUT	Nominal 12V(deviation 11.4~12.6V)@50mA for AUX-Type only(option)							
	VOLTAGE RANGE Note.2	180 ~ 295VAC 254 ~ 392VDC							
		(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≧0.975/230VAC, PF≧0.96/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧75%) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)							
INPUT	EFFICIENCY (Typ.) Note.4	91%							
	AC CURRENT (Typ.)	0.32A/230VAC	0.27A/277VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A(t	width=270µs measu	ured at 50% I _{peak}) at 230V	AC; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	25 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.5mA / 240VAC							
	STANDBY POWER CONSUMPTION Note.8	<1W							
	SHORT CIRCUIT	Constant current lin	niting, recovers au	tomatically after fault cor	ndition is removed				
PROTECTION	OVER VOLTAGE	105 ~ 125V Shutdown o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Shutdown o/p voltage, re-power on to recover							
		•	• •						
	WIRELESS PROTOCOL	Bluetooth low ener							
FUNCTION	DIMMING RANGE Note.9 SYNCHRONIZATION	0~100% Minimum dimming level:6%,dim to off Please refer to "SYNCHRONIZATION OPERATION" section							
	TEMP. COMPENSATION			EMPERATURE COMPE		TION"section			
	WORKING TEMP.			OUTPUT LOAD vs TEMF					
	MAX. CASE TEMP.	Tcase=+90°C				,			
	WORKING HUMIDITY	-	andonaina						
ENVIRONMENT		20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	-40 ~ +80°C , 10 ~ 95% RH							
		±0.03%/℃ (0 ~ 50℃) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
	VIBRATION		2 71				indonondart		
0.45551/0	SAFETY STANDARDS	UL8750, CSA C22.2 No.250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent, GB19510.14,GB19510.1,BIS IS15885, EAC TP TC 004 approved							
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25 °C / 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load ≥ 40%) ; BS EN/EN61000-3-3; GB17625.1,GB17743, EAC TP TC 020							
	EMC EMISSION Note.7						ine 2KV), EAC TP TC 02		
		•			, 0 ,		INCINE IN I, EAU IP IU UZU		
OTHERS	MTBF	2453.7K hrs min.		332 (Bellcore) ; 238.3	K nrs min. MIL	-HDBK-217F (25°C)			
	DIMENSION	123.5*81.5*23mm (,						
	PACKING	0.24Kg ; 54pcs/15k	0	<u></u>					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Efficiency is measured at 900mA/67V output set by DIP switch. Current ripple is measured 60%~100% of maximum voltage under rated power delivery. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft 8. The standby power consumption does not need to meet ErP due to the integrated wireless transmitter which is working all the time. The admining memory function needs at least 5 seconds to complete. The matching mode of TY1 type is on-off-on-off-on by AC or DC power To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 								



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NOTE: For more output current is selectable, please contact MEANWELL for details



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DIMMING OPERATION

℁Bluetooth control

 To be used through APP available on Apple Store and Google Play Store for iOS and Android. Search: BLE with Casambi/TY1 with Smart Life/SVA with Silvair Example:



The APP for BLE type is "Casambi" The APP for TY1 type is "Smart Life" The APP for SVA type is "Silvair"



■ OFFICIAL WEBSITE AND ECOSYSTEM INFORMATION

CASAMBI

The real time Bluetooth IC temperature is shown in the APP. In case it reaches above 72 °C (equivalent to Tc 85°C), the driver will be turn off to provide a protection. In case the units is cooled down, it can be manually turn ON and back to normal operation again.

NOTE: 1. This software temperature protection is an extra independent function from driver its own hardware over temperature protection(when it is enabled, it needs re-AC power on to recover).

2.In general the software temperature protection is triggered before the hardware one when in over temperature.

3.Website: https://www.casambi.com

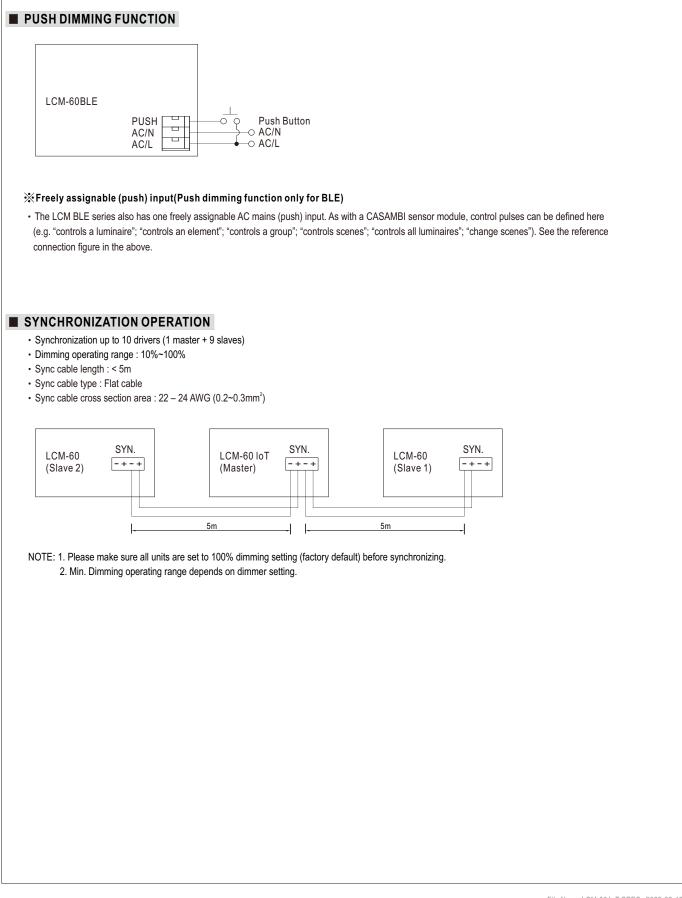


NOTE: 1.Website: https://www.tuya.com

SILVAIR

NOTE: 1.Website: https://www.silvair.com



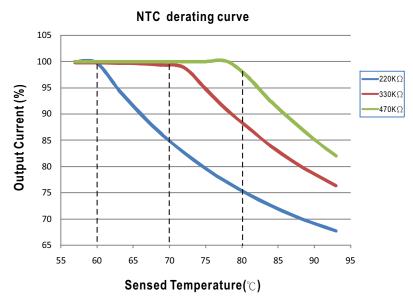




LCM-60IoT Series

■ TEMPERATURE COMPENSATION OPERATION

LCM-60 IoT series have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC*/-*NTC* terminal of LCM-60 IoT series and the detecting point on the lighting system or the surrounding environment, output current of LCM-60 IoT could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-60 IoT series can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

○ NTC reference:

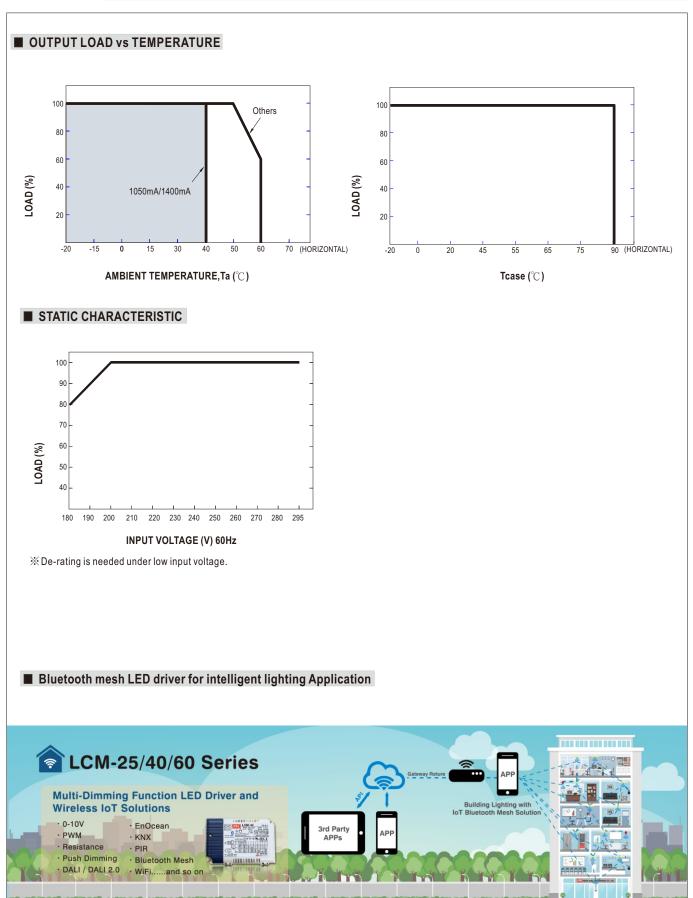
NTC resistance	Output Current	
220K	< 60 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 60 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.	
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.	
470K	< 80 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 80 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.	

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

© Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



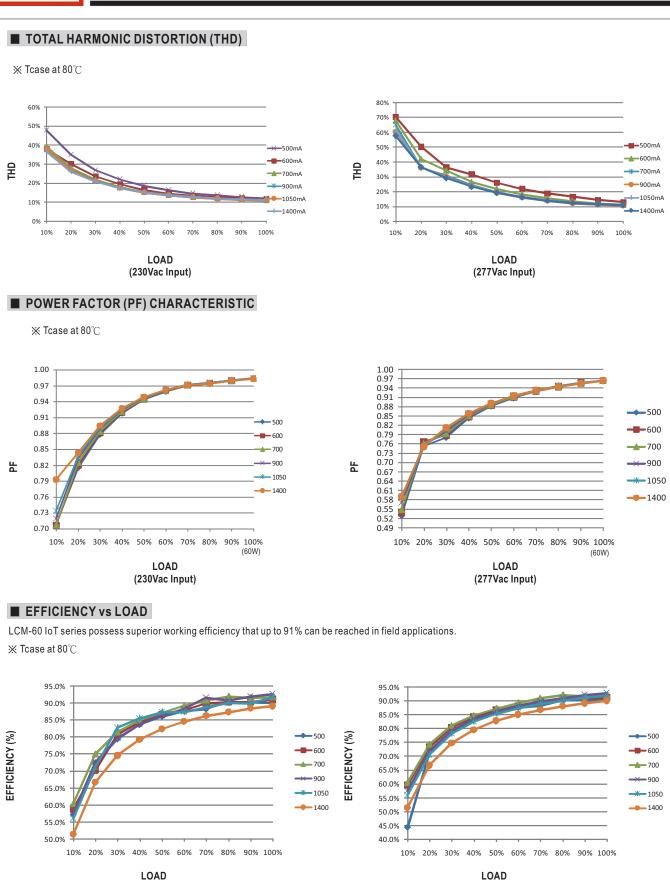
LCM-60 IoT Series



File Name:LCM-60 IoT-SPEC 2022-02-18



LCM-60 IoT Series



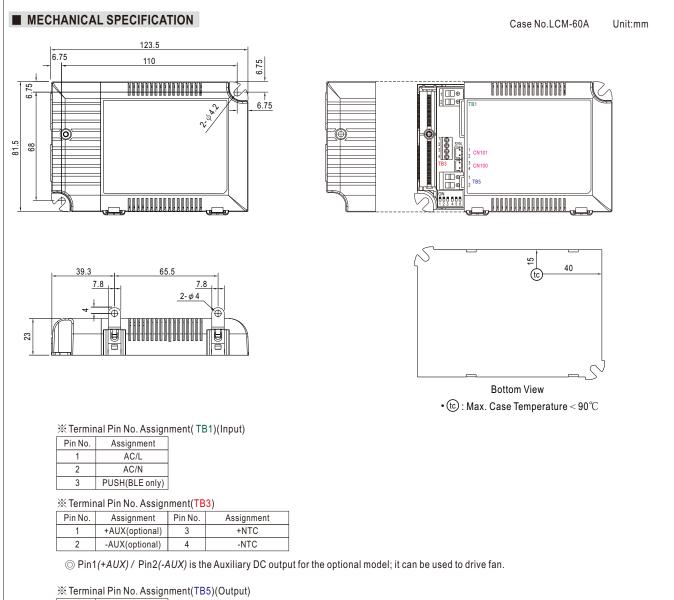
(230Vac Input)

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(277Vac Input)



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Pin No. Assignment 1 +V

2 -V

% SYN. Connector(CN101/CN100):

Pin No.	Assignment	Mating Housing	Terminal	
1,3	+	JST XHP	JST SXH-001T-P0.6	
2,4	-	or equivalent	or equivalent	

Installation Manual

Please refer to : http://www.meanwell.com/manual.html