





- · 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

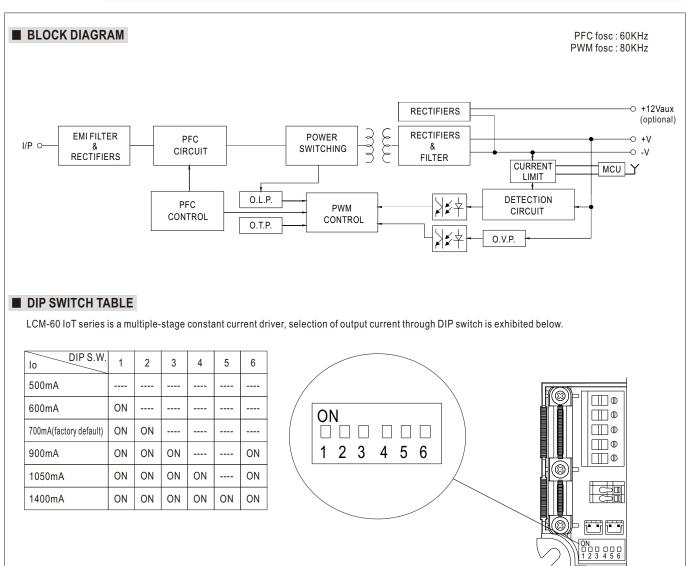
Brand	Solution	Wireless standard	Note	
Casambi	BLE	Bluetooth low energy mesh 2.4GHz protocol	By request	
Tuya	TY1	Bluetooth low energy mesh 2.4GHz protocol	By request	
Silvair	SVA	Bluetooth low energy mesh 2.4GHz protocol	By request	



SPECIFICATION

MODEL		LCM-60						
		Current level selectable via DIP switch, please refer to"DIP SWITCH TABLE" section						
	CURRENT LEVEL	500mA	600mA	700mA(default)	900mA	1050mA	1400mA	
	RATED POWER	60.3W						
OUTPUT	DC VOLTAGE RANGE	2~90V	2~90V	2~86V	2~67V	2~57V	2 ~ 42V	
	OPEN CIRCUIT VOLTAGE (max.)	95V 73V						
	CURRENT RIPPLE Note.5	5.0% max. @rated	current					
	CURRENT TOLERANCE	±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	(twidth=270µs mea	sured at 50% Ipeak) at 230V	AC; Per NEMA 410			
I	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 li	miting, recovers a	automatically after fault cor	dition is removed			
		105 ~ 125V						
PROTECTION	OVER VOLTAGE	Shutdown o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shutdown o/p vol	tage.re-power or	n to recover				
	WIRELESS PROTOCOL	Bluetooth low end						
	DIMMING RANGE Note.9	0~100% Minimun						
FUNCTION	SYNCHRONIZATION			ION OPERATION" section				
	TEMP. COMPENSATION			TEMPERATURE COMPEN		TION"section		
	WORKING TEMP.	, ,		" OUTPUT LOAD vs TEMF				
	MAX. CASE TEMP.	Tcase=+90°C				,		
	WORKING HUMIDITY	20 ~ 90% RH non-	condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY		5					
	TEMP. COEFFICIENT	-40 ~ +80°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 50°C)						
			,	d fan COmin and alama)	()(7,			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	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						
-	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Of			0(@ \>		00/17 47740 00 1706-	
	EMC EMISSION Note.7	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load ≥ 40%) ; BS EN/EN61000-3-3; GB/T 17743, GB17625.1, EAC TP TC 020 Compliance to BS EN/EN61000-4-2.3.4.5.6.8.11, BS EN/EN61547, light industry level(surge immunity Line-Line 2KV),						
	EMC IMMUNITY	EAC TP TC 020	LIN/LINUTUUU-4-2	,0,-1,0,0,0, 11, DO EN/ENO	o-rr, ngni muusiry	is ventourge minumity I	,	
	MTBF	2453.7K hrs min.	Telcordia SF	R-332 (Bellcore); 238.3	Khrs min. MIL	-HDBK-217F (25°C)		
OTHERS	DIMENSION	123.5*81.5*23mm	(L*W*H)					
-	PACKING	0.24Kg ; 54pcs/15	Kg/1.12CUFT					
NOTE	 All parameters NOT speciall De-rating may be needed un Length of set up time is mea Efficiency is measured at 90 Current ripple is measured at 90 The driver is considered as complete installation, the finit (as available on https://www The ambient temperature de The standby power consum The dimming memory functi The matching mode of TY 	der low input volta asured at first cold 0mA/67V output so 00%~100% of max a component that v al equipment manu meanwell.com//Up erating of 3.5°C/100 ption does not nee on needs at least 5	ges. Please refe start. Turning ON et by DIP switch. mum voltage unv vill be operated in facturers must re load/PDF/EMI_st 00m with fanless d to meet ErP du is seconds to com	r to "STATIC CHARACTE //OFF the driver may lead der rated power delivery. h combination with final ex e-qualify EMC Directive or tatement_en.pdf) models and of 5°C/1000n te to the integrated wireles uplete.	RISTIC" sections to increase of the quipment. Since E the complete inst with fan models	for details. set up time. MC performance will tallation again. for operating altitude	higher than 2000m(6500	





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



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

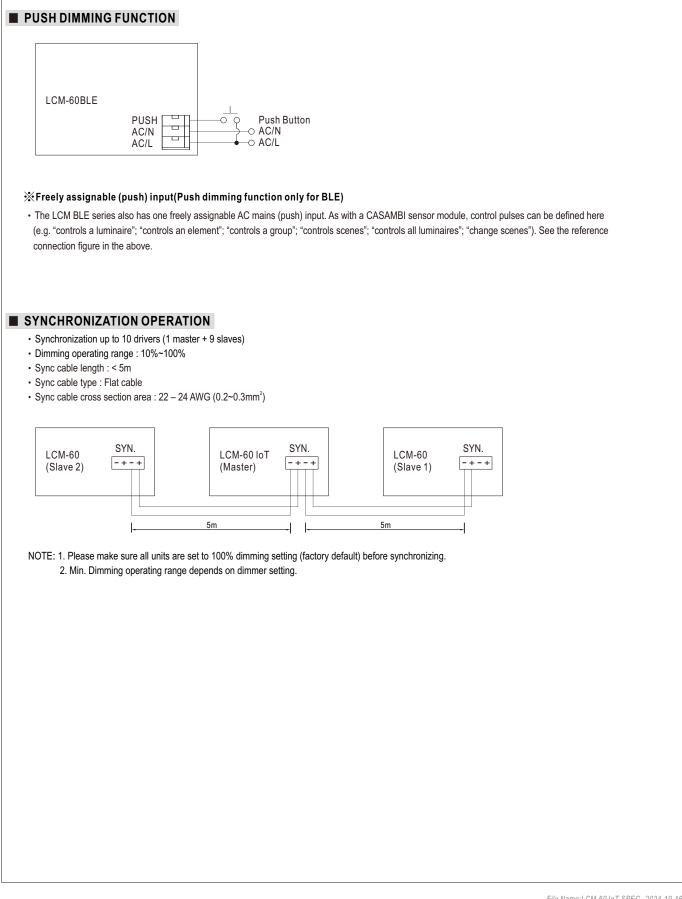


NOTE: 1.Website: https://www.tuya.com

SILVAIR

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

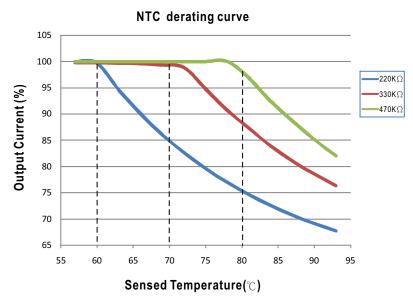






■ TEMPERATURE COMPENSATION OPERATION

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.

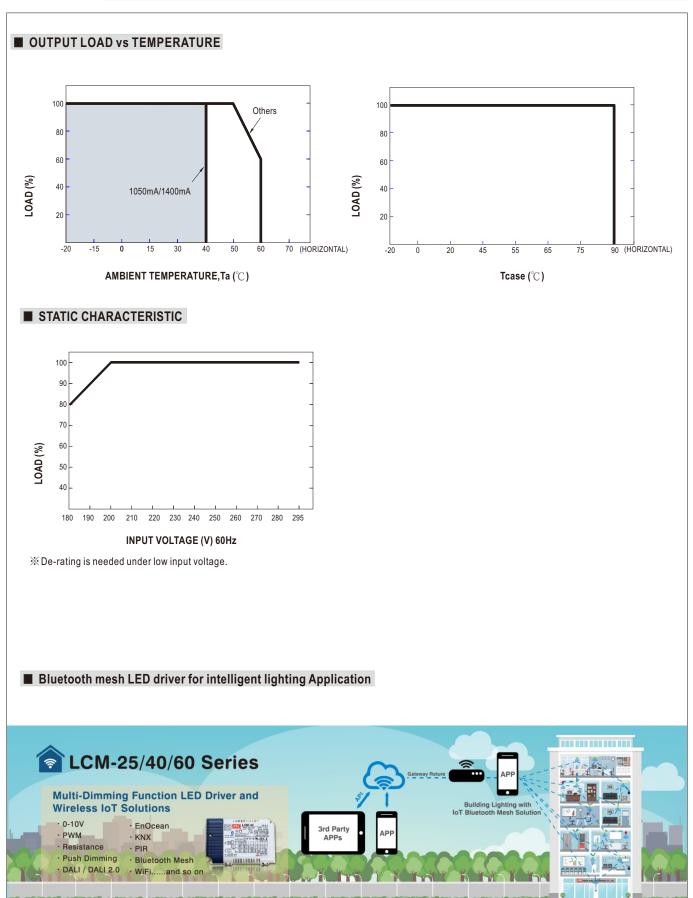
○ NTC reference:

NTC resistance	Output Current		
220K	< 60°C, 100% of the rated current (corresponds to the setting current level) > 60°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°C, 100% of the rated current (corresponds to the setting current level) > 80°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.

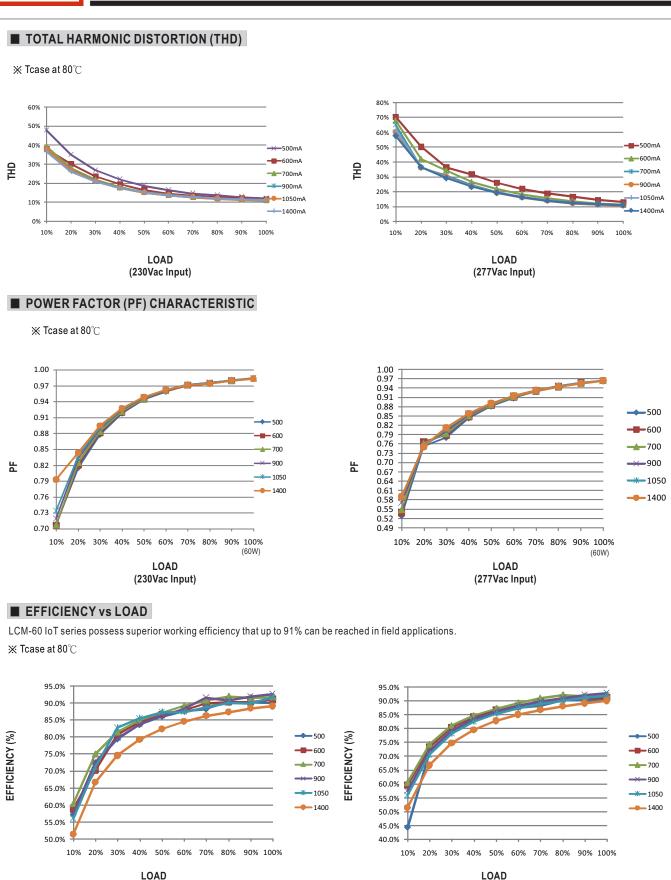
© Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.





File Name:LCM-60 IoT-SPEC 2024-10-16



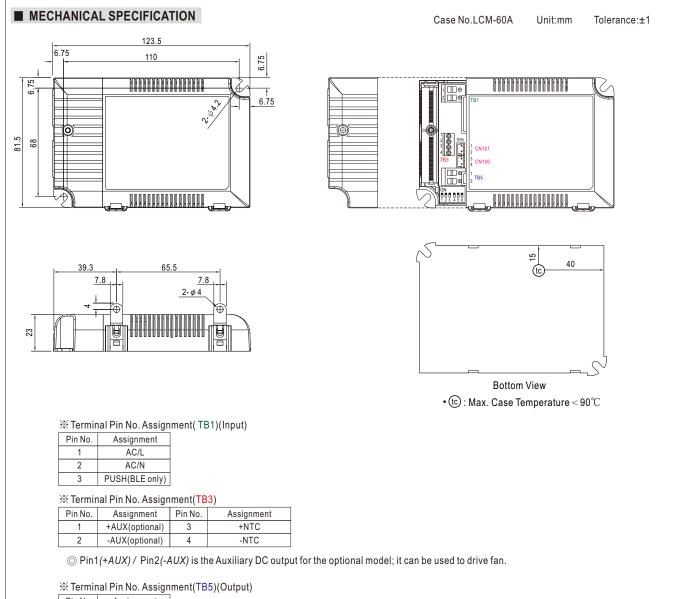


(230Vac Input)

File Name:LCM-60 IoT-SPEC 2024-10-16

(277Vac Input)





Pin No.Assignment1+V2-V

% SYN. Connector(CN101/CN100):

Pi	n 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