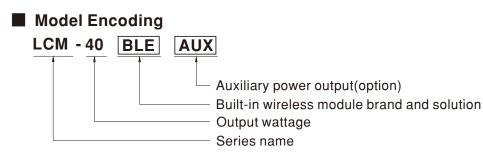


Description

LCM-40 IoT series is a 40W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and integration with Bluetooth control solution. LCM-40 IoT operates from 180~295VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the high efficiency up to 90%, 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-40 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.



IoT wireless Module brand and solution

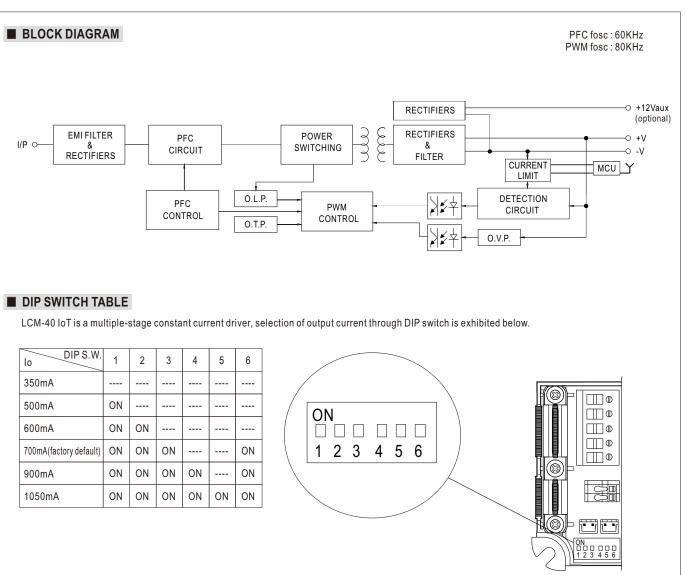
Brand	Solution	Wireless standard	Note
Casambi	BLE	Bluetooth low energy mesh 2.4GHz protocol	By request
Tuya	TY1	Bluetooth low energy mesh 2.4GHz protocol	By request
Silvair	SVA	Bluetooth low energy mesh 2.4GHz protocol	By request



SPECIFICATION

MODEL									
MODEL		LCM-40							
CURRENT LEVEL		Current level selectable via DIP switch, please refer to"DIP SWITCH TABLE" section							
		350mA	500mA	600mA	700mA(default)	900mA	1050mA		
	RATED POWER	42W							
OUTPUT	DC VOLTAGE RANGE	2~100V	2~80V	2~67V	2 ~ 57V	2 ~ 45V	2 ~ 40V		
	OPEN CIRCUIT VOLTAGE (max.)	110V			75V				
	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 (Please refer to "ST	180 ~ 295VAC 254 ~ 392VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	$\label{eq:pressure} \begin{array}{l} PF{\cong}0.975/230VAC, PF{\cong}0.96/277VAC@\texttt{full load} \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) array$							
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧75%) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)							
INPUT	EFFICIENCY (Typ.) Note.4	90%							
	AC CURRENT (Typ.)	0.23A/230VAC	0.2A/277VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A(t	width=260µs measu	red at 50% Ipeak) at 2	30VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	26 units (circuit breaker of type B) / 44 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.5mA/240VAC							
	STANDBY POWER CONSUMPTION Note.8	<1W							
PROTECTION	SHORT CIRCUIT	Constant current lin	niting, recovers au	tomatically after fault	condition is removed				
	OVER VOLTAGE	110 ~ 130V Shutdown o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Shutdown o/p volta	age,re-power on t	o recover					
	WIRELESS PROTOCOL	Bluetooth low ener	• •						
	DIMMING RANGE Note.9	0~100% Minimum							
FUNCTION	SYNCHRONIZATION			N OPERATION" sec	tion				
	TEMP. COMPENSATION				PENSATION OPERATIO	N"section			
	WORKING TEMP.	· · · · · ·			EMPERATURE" section)	1 0001011			
	MAX. CASE TEMP.	Tcase=+90°C	,		,				
	WORKING HUMIDITY	20 ~ 90% RH non-c	ondensina						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 9							
	TEMP. COEFFICIENT	±0.03%/°C (0~50							
	VIBRATION		,	for 60min each alo	ng X Y 7 axes				
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes 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 &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohr	ns / 500VDC / 25°	70% RH					
	EMC EMISSION Note.7		N/EN55015, BS E	N/EN61000-3-2 Class	s C(@load≧40%) ; BS EN	/EN61000-3-3;			
	EMC IMMUNITY	Compliance to BS E EAC TP TC 020	N/EN61000-4-2,3,	4,5,6,8,11, BS EN/EN	l61547, light industry level(surge immunity Line	e-Line 2KV),		
	MTBF	2454.5K hrs min.	Telcordia SR-3	332 (Bellcore); 23	8.8K hrs min. MII -HF)BK-217F (25°C)			
OTHERS	DIMENSION	123.5*81.5*23mm (
JHERO	PACKING	0.24Kg ; 54pcs/15k	,						
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 500mA/80V output set by DIP switch. Current ripple is measured 50%~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) The standby power consumption does not need to meet ErP due to the integrated wireless transmitter which is working all the time. The dimming 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. Y Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 								





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

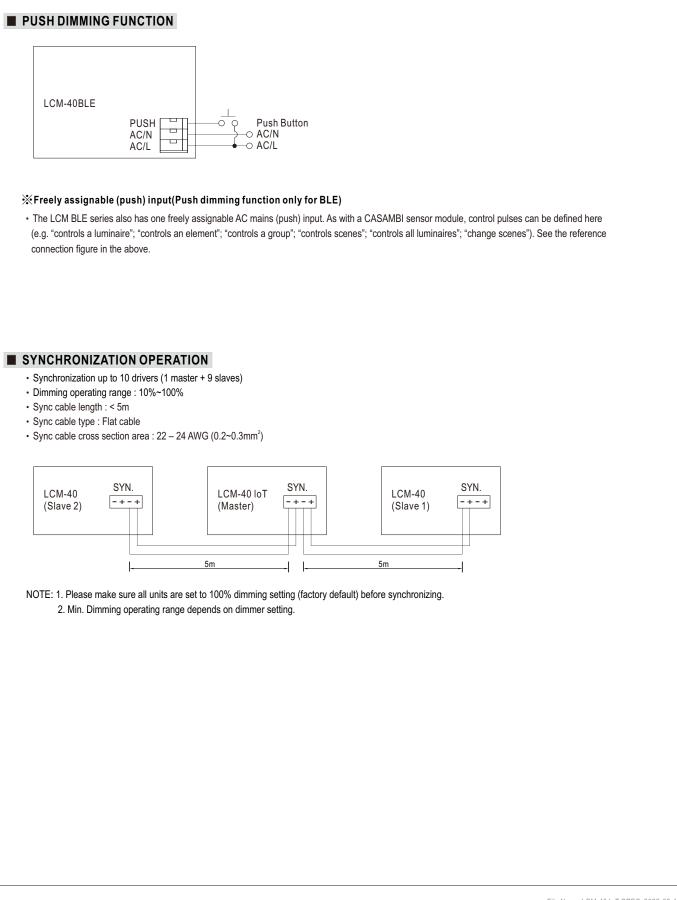


NOTE: 1.Website: https://www.tuya.com

SILVAIR

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

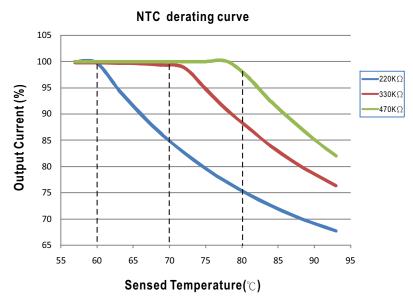






■ TEMPERATURE COMPENSATION OPERATION

LCM-40 IoT series have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC*/-*NTC* terminal of LCM-40 IoT series and the detecting point on the lighting system or the surrounding environment, output current of LCM-40 IoT could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40 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.

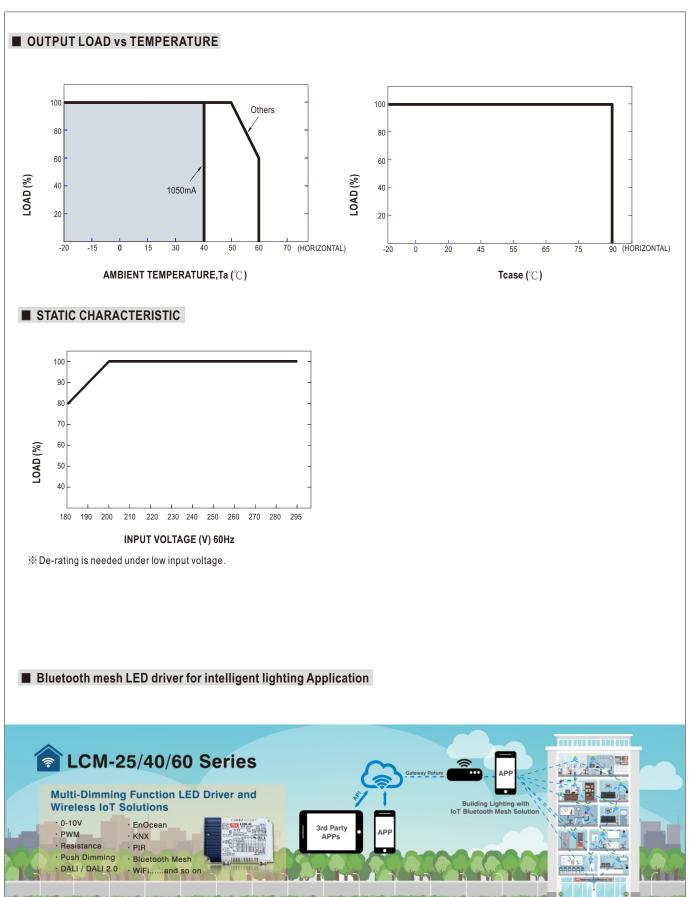
\bigcirc NTC reference:

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.

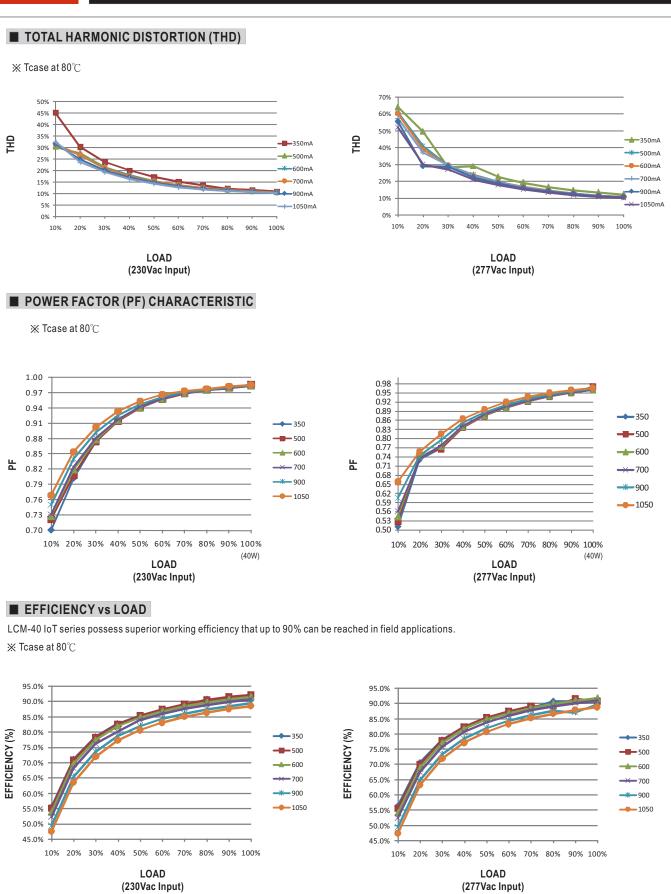
© Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.





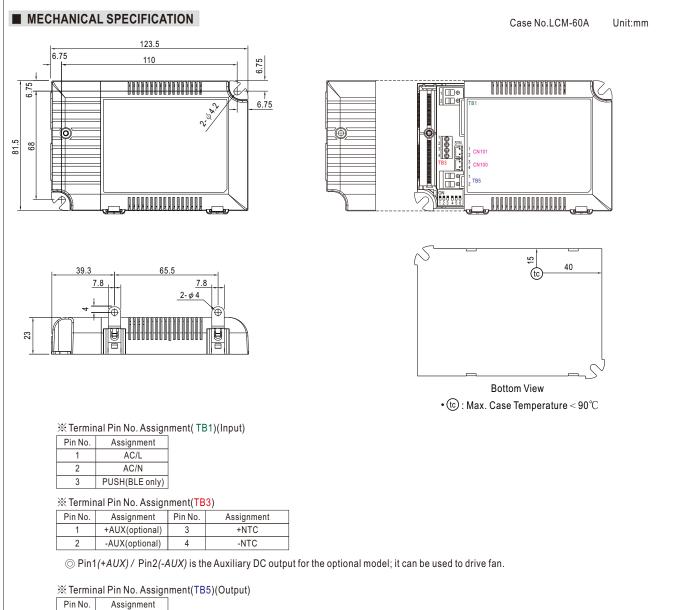
File Name:LCM-40 IoT-SPEC 2022-02-18





File Name:LCM-40 IoT-SPEC 2022-02-18





 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