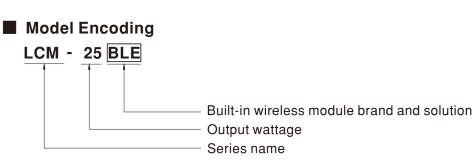




Description

LCM-25 IoT series is a 25W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and integration with Bluetooth control solution.LCM-25 IoT operates from 180~277VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 84.5%, with the fanless design, the entire series is able to operate for $-20^{\circ}C + 85^{\circ}C$ case temperature under free air convection. In addition, LCM-25 IoT is designed with 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

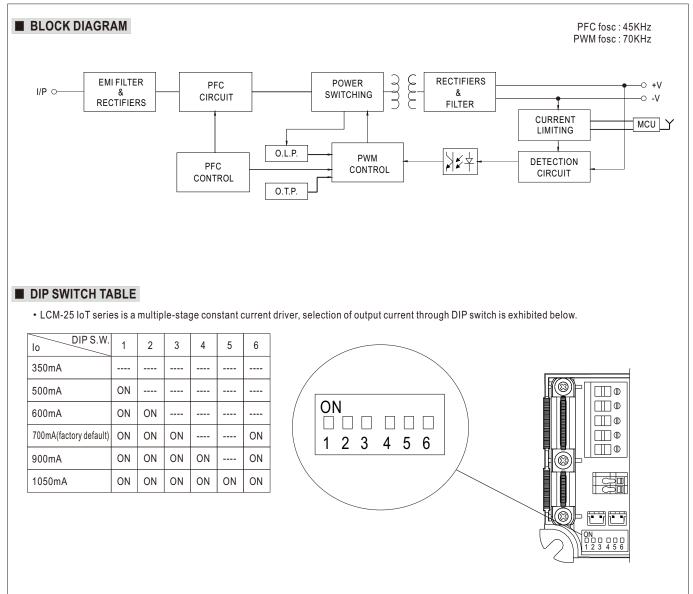
Brand	Solution	Wireless standard	Note
Casambi	BLE	Bluetooth low energy mesh 2.4GHz protocol	By request
Tuya	TY1	Bluetooth low energy mesh 2.4GHz protocol	By request
Silvair	SVA	Bluetooth low energy mesh 2.4GHz protocol	By request



SPECIFICATION

	ATION								
MODEL		LCM-25							
		Current level selectable via DIP switch, please refer to"DIP SWITCH TABLE" section							
OUTPUT	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA		
	RATED POWER	18.9W	25.2W						
	DC VOLTAGE RANGE	6~54V	6~50V	6 ~ 42V	6~36V	6~28V	6 ~ 24V		
	OPEN CIRCUIT VOLTAGE (max.)	59V			41V				
	CURRENT RIPPLE	5.0% max. @rated current							
	CURRENT TOLERANCE	±5%							
INPUT	VOLTAGE RANGE Note.2	180 ~ 277VAC 254 ~ 380VDC (Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≧0.94/230VAC, PF≧0.91/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧50%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)							
	EFFICIENCY (Typ.) Note.4	84.5%							
	AC CURRENT (Typ.)	0.17A/230VAC 0.15A/277VAC							
	INRUSH CURRENT (Typ.)	COLD START 20A(twidth=260µs measured at 50% Ipeak) at 230VAC; 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 limiting, recovers automatically after fault condition is removed							
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down							
FUNCTION	WIRELESS PROTOCOL	Bluetooth low energy 2.4GHz protocol							
	DIMMING RANGE Note.9	0~100% Minimum dimming level:6%,dim to off							
	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section							
ENVIRONMENT	WORKING TEMP.	Tcase=-20 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+85℃							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS	UL8750(except for DA2-Type), CSA C22.2 NO.250.0-08, 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							
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH							
	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load≧50%) ; 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), EAC TP TC 020 2712.7K hrs min. Telcordia SR-332 (Bellcore) ; 249.5K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	MTBF	2712.7K hrs min.		2 (Bellcore); 24	is.ok nrs min. MIL-	HDBK-217F (25°C)		
	DIMENSION	105*68*23mm (L*W*H)							
	PACKING	0.17Kg ; 72pcs/13.2		pout roted ourse	and 25°C of ambigut	omporatura			
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/50V output set by DIP switch. Standby power consumption is measured at 230VAC. 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. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 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 admiring 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 								





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



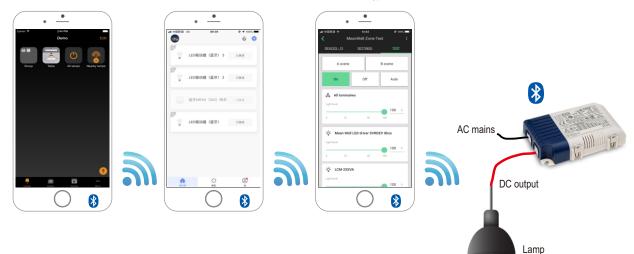
DIMMING OPERATION

℁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 80 °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

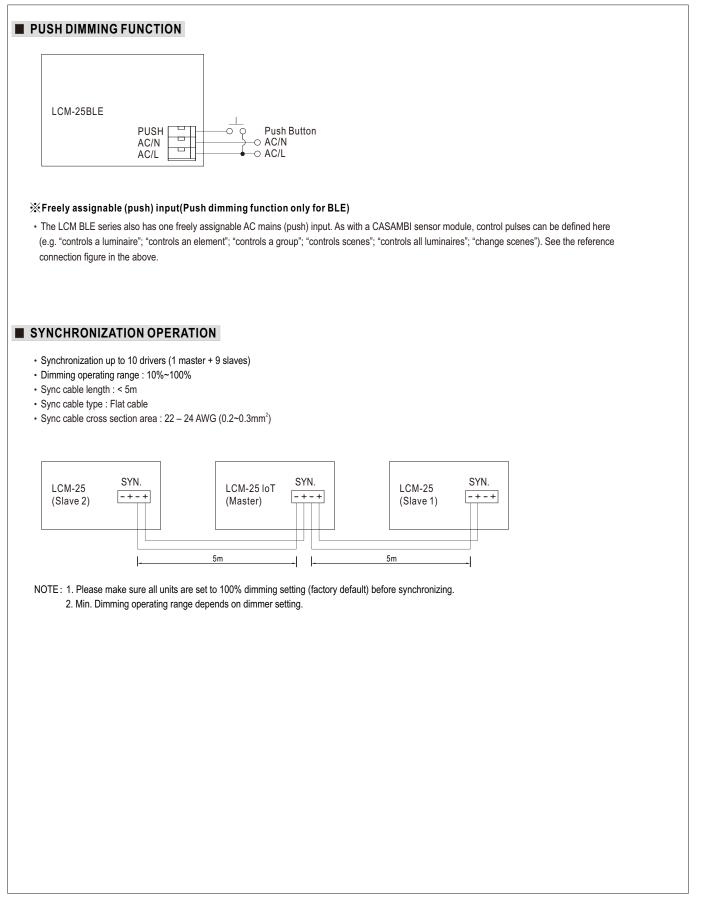


NOTE: 1.Website: https://www.tuya.com

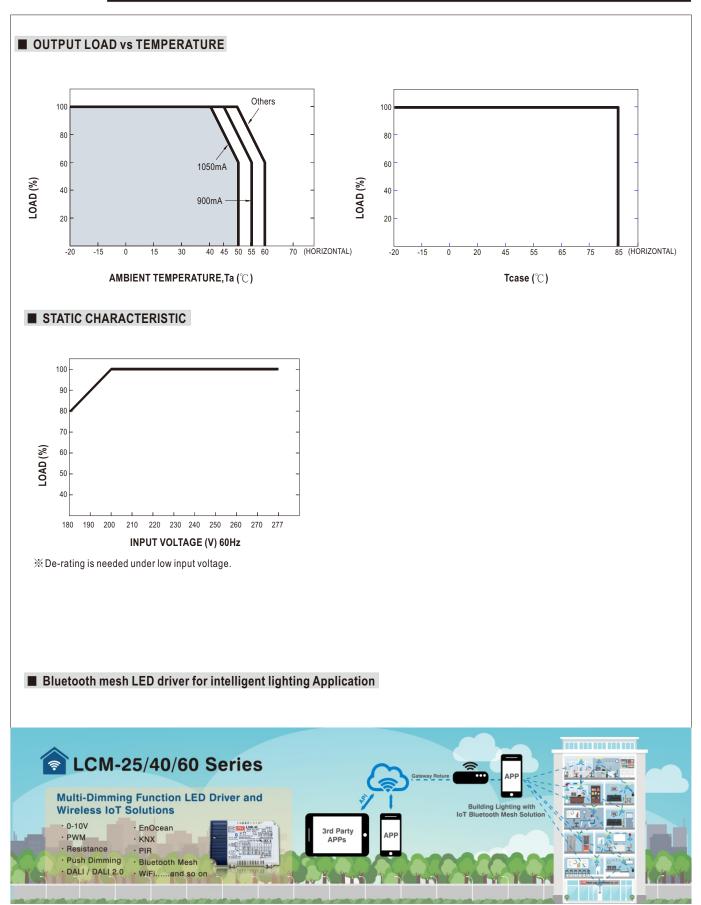
SILVAIR

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



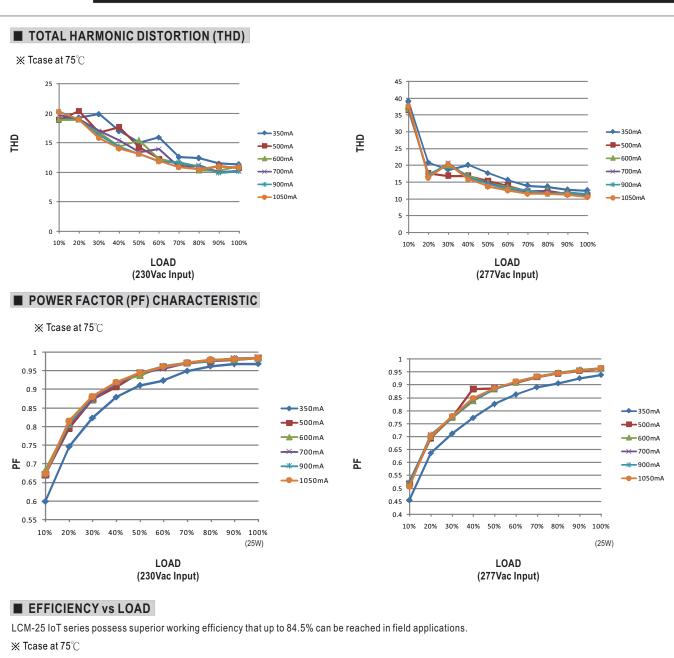


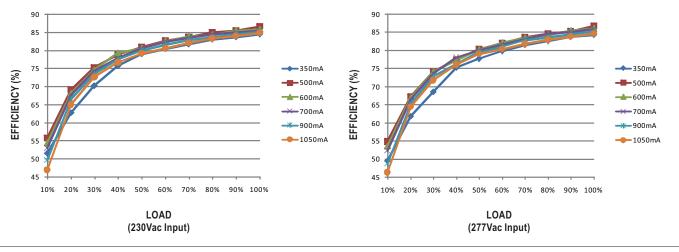




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