



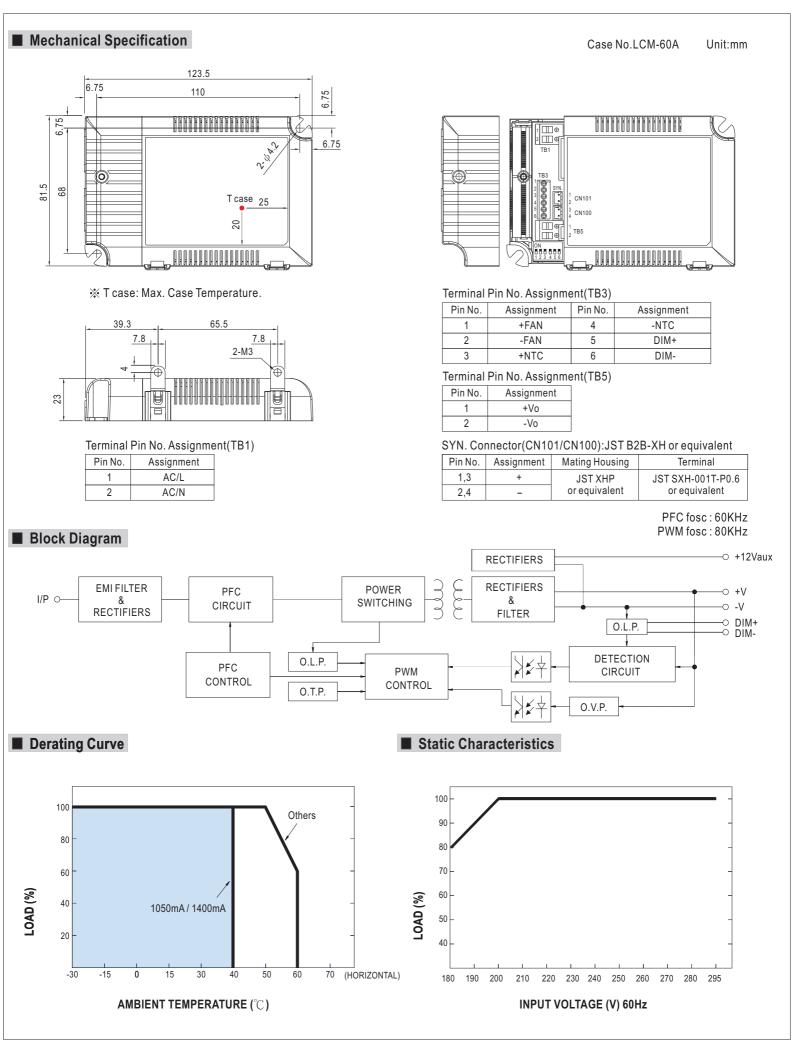
- Features :
- Output current level selectable by DIP S.W.
- 180~295VAC input only
- Built-in active PFC function
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Class Ⅱ power unit, no FG
- Built-in 0~10Vdc and PWM signal dimming function
- Built-in 12V/50mA auxiliary output
- Temperature compensation function by external NTC
- No load power consumption <1W(Note.7)
- · Power supplies synchronization function up to 10 units
- · Suitable for indoor LED lighting applications
- 3 years warranty



SPECIFICATION

FUNCTION DIMMING Please see "Dimming Operation" SYNCHRONIZATION Please see "Synchronization Operation" WORKING TEMP. -30 ~ +60 °C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +80 °C, 10 ~ 95% RH		1400mA 2 ~ 42V								
DC VOLTAGE RANGE 2 ~ 90V 2 ~ 86V 2 ~ 67V RATED POWER 60.3W RIPPLE CURRENT ±5% 5000000000000000000000000000000000000	2 ~ 57V	2~42V								
RATED POWER 60.3W RIPPLE CURRENT ±5% RIPPLE & NOISE (max.) Note.2 700mVp-p NO LOAD OUTPUT VOLTAGE (max.) 95V CURRENT ACCURACY ±5.0% SETUP, RISE TIME Note.5 HODDWS 1000ms, 80ms / 230VAC at rated power HOLD UP TIME (Typ.) 16ms/230VAC at rated power VOLTAGE RANGE Note.4 POWER FACTOR (Typ.) PF≥0.975/230VAC, PF≥0.96/277VAC at rated power (Please refer to "Power TOTAL HARMONIC DISTORTION Total harmonic distortion will be lower than 20% when output loading is 75% or EFFICIENCY (Typ.) Note.6 92% AC CURRENT (Typ.) 0.32A/230VAC 0.27A/277VAC INRUSH CURRENT(Typ.) 0.32A/230VAC 0.27A/277VAC INRUSH CURRENT (Typ.) 0.32A/240VAC 230VAC EFFICIENCY (Typ.) Note.6 92° AC CURRENT (Typ.) COLD START 20A(twith=270µz measured at 50% lpeak) at 230VAC INRUSH CURRENT(Typ.) COLD START 20A(twith=270µz measured at 50% lpeak) at 230VAC VER VOLTAGE 90°C ±10°C (RTH2) Protection type : Shutdown o/p voltage, re-power on to recover	r Factor Characteristic"									
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ENVIRONMENT STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH										
$1 \text{EMP. COEFFICIENT} \qquad \pm 0.03\% / C (0 \sim 50 C)$	±0.03%/°C (0~50°C)									
VIBRATION10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
SAFETY STANDARDS UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 independent approved	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 independent approved									
SAFETY & WITHSTAND VOLTAGE I/P-O/P:3.75KVAC	I/P-O/P:3.75KVAC									
EMC ISOLATION RESISTANCE I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH										
EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C(≥40% rated power) ; EN61000-3	3-3									
EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547 light industry level	(surge 2KV), criteria A									
MTBF 260.6K hrs min. MIL-HDBK-217F (25℃)	260.6K hrs min. MIL-HDBK-217F (25°C)									
OTHERS DIMENSION 123.5*81.5*23mm (L*W*H)	123.5*81.5*23mm (L*W*H)									
PACKING 0.24Kg ; 54pcs/15Kg/1.12CUFT										
 NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient to 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 3. Please see "DIP switch table". 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase 6. Efficiency is measured at 900mA/67V output set by DIP switch. 7. No load power consumption<1W is measured at 180~277VAC, with lighting fixture connected and output considered as a component that will be operated in combination with final equipment. complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation. 	uf parallel capacitor. se of the set up time.	e will be affected by th								







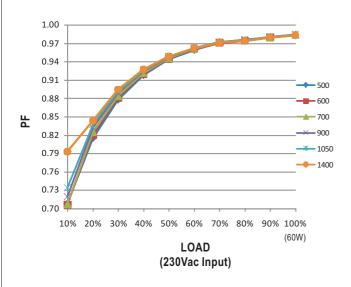
DIP Switch Table

LCM-60 is a multiple-stage output current supply, selection of output current through DIP switch as table below.

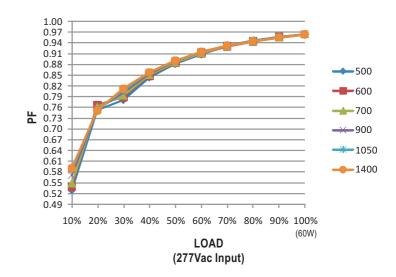
lo DIP S.W.	1	2	3	4	5	6
500mA						
600mA	ON					
700mA(Factory Setting)	ON	ON				
900mA	ON	ON	ON			ON
1050mA	ON	ON	ON	ON		ON
1400mA	ON	ON	ON	ON	ON	ON

Power Factor Characteristic

Constant Current Mode

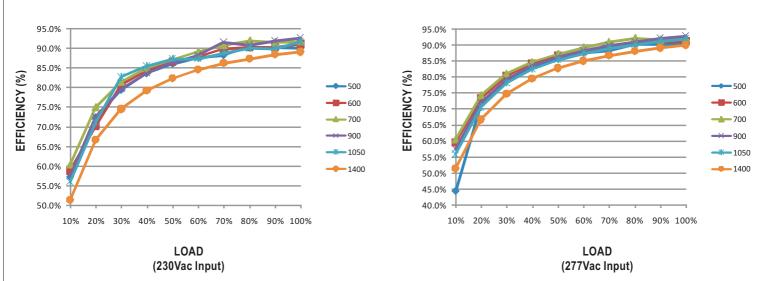


Constant Current Mode



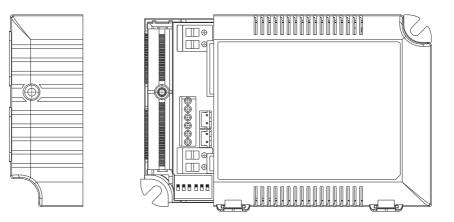
EFFICIENCY vs LOAD

LCM-60 series possess superior working efficiency that up to 92% can be reached in field applications.





DIMMING OPERATION



- ※ Built-in 2 in 1 dimming function, output constant current level can be adjusted through output terminal by 0 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.
- ※ Please DO NOT connect "DIM-" to "-Vo".
- × 0 ~ 10V dimming function for output current adjustment (Typical)

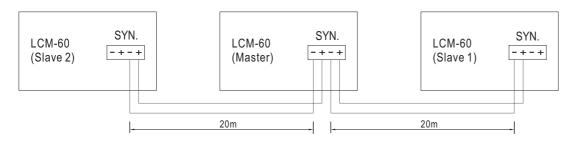
Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Output current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%~108%

※ 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Output current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%~108%

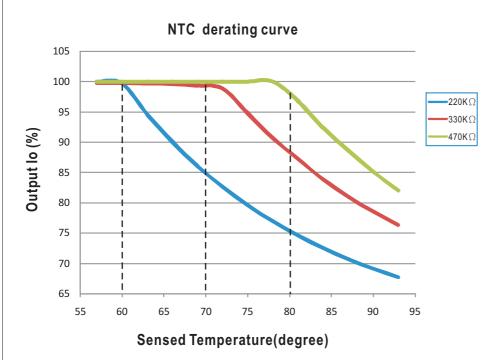
SYNCHRONIZATION OPERATION

- 10 drivers(max.) synchronization (1 master + 9 slaves)
- Maximum cable length between each units : 20 meter.





■ TEMPERATURE COMPENSATION OPERATION



LCM-60 have the built-in temperature compensation function (T \uparrow , Io \downarrow). By connecting a temperature sensor (NTC resistor) between the NTC +/- terminal of LCM-60 and the detecting point on the lighting system or the surrounding environment, output current of LCM-60 could be correspondingly changed to ensure the long life of LED.

1.LCM-60 can still be operated well when the NTC resistor is not connected and the value of output current will be the current level that you set through the DIP switch.

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

Notes: 1. MW 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.