



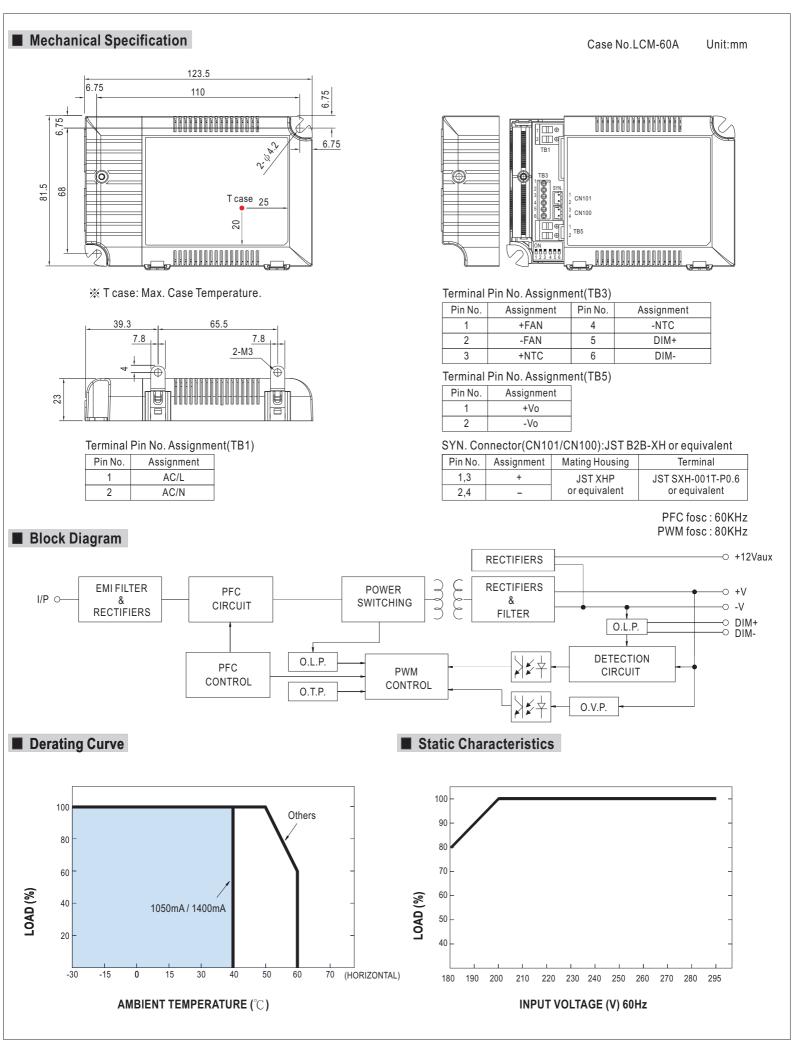
- Features :
- Output current level selectable by DIP S.W.
- 180~295VAC input only
- Built-in active PFC function
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Class Ⅱ power unit, no FG
- Built-in 0~10Vdc and PWM signal 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"									
RIPPLE CURRENT         ±5%           RIPPLE & NOISE (max.) Note.2         700mVp-p           NO LOAD OUTPUT VOLTAGE (max.)         95V         73V           CURRENT ACCURACY         ±5.0%         73V           SETUP, RISE TIME         Note.5         1000ms, 80ms / 230VAC at rated power           HOLD UP TIME (Typ.)         16ms/230VAC at rated power            VOLTAGE RANGE         Note.4         180 ~ 295VAC         254 ~ 417VDC           FREQUENCY RANGE         47 ~ 63Hz          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            FFFICIENCY (Typ.)         Note.6         92%            AC CURRENT (Typ.)         0.32A/230VAC         0.27A/277VAC           INRUSH CURRENT(Typ.)         COLD START 20A(twidth=270/25 measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           0VER TEMPERATURE         90°C ±10°C (RTH2)         Protection type : Shut down o/p voltage, re-power on to recover           FUNCTION         TEMP. COMPENSATION         Please see "Dimming Operation"		curve)								
OUTPUT         RIPPLE & NOISE (max.) Note.2         700mVp-p           NO LOAD OUTPUT VOLTAGE (max.)         95V         73V           CURRENT ACCURACY         ±5.0%         73V           SETUP, RISE TIME         Note.5         1000ms, 80ms / 230VAC at rated power           HOLD UP TIME (Typ.)         16ms/230VAC at rated power            VOLTAGE RANGE         Note.4         180 ~ 295VAC         254 ~ 417VDC           FREQUENCY RANGE         47 ~ 63Hz             POWER FACTOR (Typ.)         PF ≥0.975/230VAC, PF ≥0.96/277VAC at rated power (Please refer to "Powe            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.)         COLD START 20A(twidth=270/215 measured at 50% lpeak) at 230VAC             PROTECTION         SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed            OVER TEMPERATURE         0°C ±10°C (RTH2)              OVER TEMPERATION         By external NTC(not provide with the		curve)								
NO LOAD OUTPUT VOLTAGE (max.)         95V         73V           CURRENT ACCURACY         ±5.0%         5           SETUP, RISE TIME         Note.5         1000ms, 80ms / 230VAC at rated power           HOLD UP TIME (Typ.)         16ms/230VAC at rated power           VOLTAGE RANGE         Note.4         180 ~ 295VAC         254 ~ 417VDC           FREQUENCY RANGE         47 ~ 63Hz         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.)         COLD START 20A(twidt=270)/2 s measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           OVER VOLTAGE         Protection type : Shutdown o/p voltage, re-power on to recover           PVCt±10°C (RTH2)         Protection type : Shut down o/p voltage, re-power on to recover           FUNCTION         EWRONALTARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Te		curve)								
CURRENT ACCURACY         ±5.0%           SETUP, RISE TIME         Note.5         1000ms, 80ms / 230VAC at rated power           HOLD UP TIME (Typ.)         16ms/230VAC at rated power           VOLTAGE RANGE         Note.4         180 ~ 295VAC         254 ~ 417VDC           FREQUENCY RANGE         47 ~ 63Hz           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.)         COLD START 20A(twidth=270,4 s measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           0VER VOLTAGE         105 ~ 125V           Protection type : Shutdown o/p voltage, re-power on to recover           90°C ±10°C (RTH2)           POWER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           DIMMING         Please see "Synchron		curve)								
SETUP, RISE TIME         Note.5         1000ms, 80ms / 230VAC at rated power           HOLD UP TIME (Typ.)         16ms/230VAC at rated power           VOLTAGE RANGE         Note.4         180 ~ 295VAC         254 ~ 417VDC           FREQUENCY RANGE         47 ~ 63Hz         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.)         COLD START 20A(twidth=270,t/z measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           VER VOLTAGE         105 ~ 125V           Protection type : Shutdown o/p voltage, re-power on to recover           0VER VOLTAGE         90°C ±10°C (RTH2)           Potection type : Shut down o/p voltage, re-power on to recover           FUNCTION         4UXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           DIMMING         Please see "Synchronization Operation"           <		curve)								
HOLD UP TIME (Typ.)16ms/230VAC at rated powerVOLTAGE RANGENote.4180 ~ 295VAC254 ~ 417VDCFREQUENCY RANGE47 ~ 63HzPOWER FACTOR (Typ.)PF ≥ 0.975/230VAC, PF ≥ 0.96/277VAC at rated power (Please refer to "PoweTOTAL HARMONIC DISTORTIONTotal harmonic distortion will be lower than 20% when output loading is 75% orEFFICIENCY (Typ.)Note.692%AC CURRENT (Typ.)0.32A/230VACAC CURRENT (Typ.)0.32A/230VAC0.27A/277VACINRUSH CURRENT (Typ.)0.32A/230VAC0.27A/277VACINRUSH CURRENT (Typ.)COLD START 20A(twidth=270//s measured at 50% lpeak) at 230VACLEAKAGE CURRENT<0.5mA / 240VACSHORT CIRCUITConstant current limiting, recovers automatically after fault condition is removed0VER VOLTAGE105 ~ 125VProtection type : Shutdown o/p voltage, re-power on to recoverPROTECTIONQVER TEMPERATURE90°C ±10°C (RTH2)Protection type : Shut down o/p voltage, re-power on to recoverFUNCTIONBy external NTC(not provide with the power supply), please see "TemperatureIDIMINGPlease see "Dimming Operation"SYNCHRONIZATIONPlease see "Synchronization Operation"ENVIRONMENTSTORAGE TEMP, HUMIDITY40 ~ +80°C, 10 ~ 95% RH		curve)								
INPUT         VOLTAGE RANGE Note.4         180 ~ 295VAC         254 ~ 417VDC           FREQUENCY RANGE         47 ~ 63Hz         POWER FACTOR (Typ.)         PF≥0.975/230VAC, PF≥0.96/277VAC at rated power (Please refer to "Powe           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.)         COLD START 20A(twidth=270)//s measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           0%C ±10°C (RTH2)         Protection type : Shutdown o/p voltage, re-power on to recover           PROTECTION         AUXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           FUNCTION         TEMP. COMPENSATION         By external NTC (not provide with the power supply), please see "Temperature           DIMMING         Please see "Synchronization Operation"           SYNCHRONIZATION         Please see "Synchronization Operation"           WORKING TEMP.         -30 ~ +60°C (Refer to "Derating Curve")           WORKING TEMP.         -30 ~ 480°C, 10 ~ 95% RH		curve)								
INPUT         FREQUENCY RANGE         47 ~ 63Hz           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.)         COLD START 20A(twidth=270/L s measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           OVER VOLTAGE         105 ~ 125V           Protection type : Shutdown o/p voltage, re-power on to recover           OVER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           FUNCTION         AUXILIARY POWER           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           DIMMING         Please see "Dimming Operation"           SYNCHRONIZATION         Please see "Synchronization Operation"           WORKING TEMP.         -30 ~ +60°C (Refer to "Derating Curve")           WORKING TEMP., HUMIDITY         20 ~ 90% RH non-condensing           ENVIRONMENT <t< th=""><th></th><th>curve)</th></t<>		curve)								
INPUT         POWER FACTOR (Typ.)         PF ≥ 0.975/230VAC, PF ≥ 0.96/277VAC at rated power (Please refer to "Power Total Harmonic Distortion will be lower than 20% when output loading is 75% or EFFICIENCY (Typ.)           INPUT         Total Harmonic Distortion         Total harmonic distortion will be lower than 20% when output loading is 75% or EFFICIENCY (Typ.)           AC CURRENT (Typ.)         0.32A/230VAC         0.27A/277VAC           INRUSH CURRENT(Typ.)         COLD START 20A(twidth=270µ/s measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC		curve)								
INPUT         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.)         COLD START 20A(twidth=270/∠s measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           OVER VOLTAGE         105 ~ 125V           Protection type : Shutdown o/p voltage, re-power on to recover           PROTECTION         90°C ±10°C (RTH2)           OVER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           AUXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           DIMMING         Please see "Synchronization Operation"           SYNCHRONIZATION         Please see "Synchronization Operation"           SYNCHRONIZATION         Please see "Synchronization Operation"           ENVIRONMENT         STORAGE TEMP, HUMIDITY         20 ~ 90% RH non-condensing		'curve)								
INPUT         EFFICIENCY (Typ.)         Note.6         92%           AC CURRENT (Typ.)         0.32A/230VAC         0.27A/277VAC           INRUSH CURRENT (Typ.)         COLD START 20A(twidth=270/µ's measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           0VER VOLTAGE         105 ~ 125V           Protection type : Shutdown o/p voltage, re-power on to recover           0VER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           4UXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           DIMMING         Please see "Synchronization Operation"           SYNCHRONIZATION         Please see "Synchronization Operation"           WORKING TEMP.         -30 ~ +60°C (Refer to "Derating Curve")           WORKING HUMIDITY         20 ~ 90% RH non-condensing           ENVIRONMENT         STORAGE TEMP., HUMIDITY	higher									
EFFICIENCY (Typ.)         Note.6         92%           AC CURRENT (Typ.)         0.32A/230VAC         0.27A/277VAC           INRUSH CURRENT(Typ.)         COLD START 20A(twidth=270///s measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           Vert VOLTAGE         00°C ±10°C (arter the timiting, recovers automatically after fault condition is removed           PROTECTION         OVER VOLTAGE         105 ~ 125V           Protection type : Shutdown o/p voltage, re-power on to recover         Protection type : Shutdown o/p voltage, re-power on to recover           PROTECTION         AUXILIARY POWER         10°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover         Protection type : Shut down o/p voltage, re-power on to recover           FUNCTION         AUXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           FUNCTION         Please see "Dimming Operation"           FUNCTION         Please see "Synchronization Operation"           SYNCHRONIZATION         Please see "Synchronization Operation"           WORKING TEMP.         -30 ~ +60°C (Refer to "Derating Curve")           WORKING HUMIDITY         20 ~ 90% RH non-condensing           ENVIRONMENT         STORAGE TEMP., HUMIDITY										
INRUSH CURRENT(Typ.)         COLD START 20A(twidth=270µ/s measured at 50% lpeak) at 230VAC           LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           0VER VOLTAGE         105 ~ 125V           Protection type : Shutdown o/p voltage, re-power on to recover           0VER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           4UXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           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           ENVIRONMENT         STORAGE TEMP., HUMIDITY										
LEAKAGE CURRENT         <0.5mA / 240VAC           SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           OVER VOLTAGE         105 ~ 125V           OVER VOLTAGE         90°C ±10°C (RTH2)           OVER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           AUXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           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           ENVIRONMENT         STORAGE TEMP., HUMIDITY										
SHORT CIRCUIT         Constant current limiting, recovers automatically after fault condition is removed           OVER VOLTAGE         105 ~ 125V           Protection type : Shutdown o/p voltage, re-power on to recover           OVER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           FUNCTION         AUXILIARY POWER           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           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           ENVIRONMENT         STORAGE TEMP., HUMIDITY										
PROTECTION         OVER VOLTAGE         105~125V           Protection type : Shutdown o/p voltage, re-power on to recover         90°C ±10°C (RTH2)           OVER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           AUXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           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           ENVIRONMENT         STORAGE TEMP., HUMIDITY										
PROTECTION         OVER VOLTAGE         Protection type : Shutdown o/p voltage, re-power on to recover           Protection type : Shutdown o/p voltage, re-power on to recover         90°C ±10°C (RTH2)           OVER TEMPERATURE         90°C ±10°C (RTH2)           Protection type : Shut down o/p voltage, re-power on to recover           AUXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature           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           ENVIRONMENT         STORAGE TEMP., HUMIDITY										
PROTECTION         Protection type : Shutdown o/p voltage, re-power on to recover           OVER TEMPERATURE         90°C ±10°C (RTH2) Protection type : Shut down o/p voltage, re-power on to recover           FUNCTION         AUXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature 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           ENVIRONMENT         STORAGE TEMP., HUMIDITY         -40 ~ +80°C, 10 ~ 95% RH										
OVER TEMPERATURE         Protection type : Shut down o/p voltage, re-power on to recover           AUXILIARY POWER         12V @ 50mA for driving fan; Tolerance±5%           FUNCTION         TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature DIMMING           Please see "Dimming Operation"         SYNCHRONIZATION         Please see "Synchronization Operation"           WORKING TEMP.         -30 ~ +60°C (Refer to "Derating Curve")         -30 ~ 90% RH non-condensing           ENVIRONMENT         STORAGE TEMP., HUMIDITY         -40 ~ +80°C, 10 ~ 95% RH										
FUNCTION       Protection type : Shut down o/p voltage, re-power on to recover         AUXILIARY POWER       12V @ 50mA for driving fan; Tolerance±5%         TEMP. COMPENSATION       By external NTC(not provide with the power supply), please see "Temperature         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         ENVIRONMENT       STORAGE TEMP., HUMIDITY       -40 ~ +80°C, 10 ~ 95% RH										
FUNCTION         TEMP. COMPENSATION         By external NTC(not provide with the power supply), please see "Temperature DIMMING           Please see "Dimming Operation"         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           ENVIRONMENT         STORAGE TEMP., HUMIDITY           -40 ~ +80°C, 10 ~ 95% RH										
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           ENVIRONMENT         STORAGE TEMP., HUMIDITY           -40 ~ +80°C, 10 ~ 95% RH										
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           ENVIRONMENT         STORAGE TEMP., HUMIDITY           -40 ~ +80°C, 10 ~ 95% RH	external NTC(not provide with the power supply), please see "Temperature Compensation Operation"									
WORKING TEMP.         -30 ~ +60°C (Refer to "Derating Curve")           WORKING HUMIDITY         20 ~ 90% RH non-condensing           ENVIRONMENT         STORAGE TEMP., HUMIDITY         -40 ~ +80°C, 10 ~ 95% RH										
WORKING HUMIDITY         20 ~ 90% RH non-condensing           ENVIRONMENT         STORAGE TEMP., HUMIDITY         -40 ~ +80 °C, 10 ~ 95% RH										
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										
<b>EMC EMISSION</b> 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										
<ul> <li>NOTE</li> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient to 2. Ripple &amp; 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".</li> <li>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</li> <li>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.</li> <li>7. No load power consumption&lt;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.</li> </ul>	uf parallel capacitor. se of the set up time.	e will be affected by th								







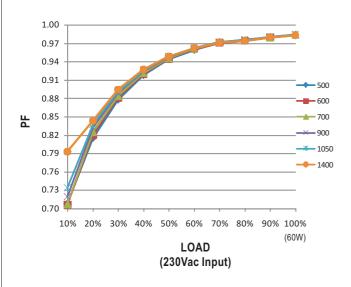
# DIP Switch Table

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

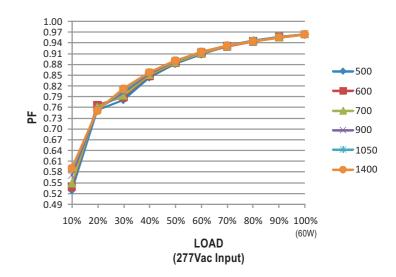
lo DIP S.W.	1	2	3	4	5	6
500mA						
600mA	ON					
700mA(Factory Setting)	ON	ON				
900mA	ON	ON	ON			ON
1050mA	ON	ON	ON	ON		ON
1400mA	ON	ON	ON	ON	ON	ON

#### Power Factor Characteristic

#### **Constant Current Mode**

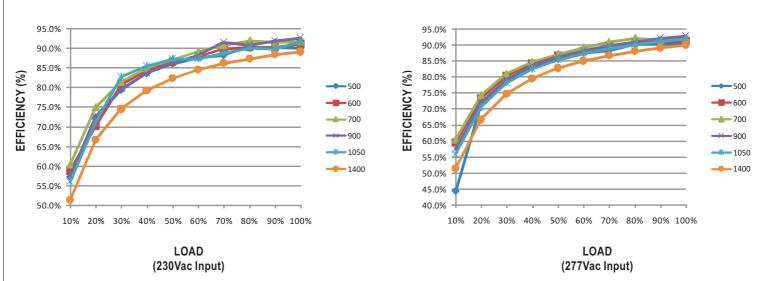


## **Constant Current Mode**



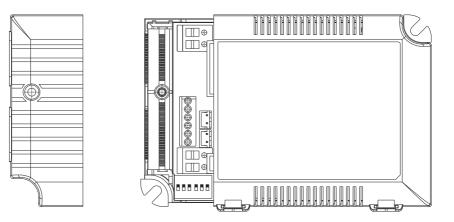
#### EFFICIENCY vs LOAD

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)

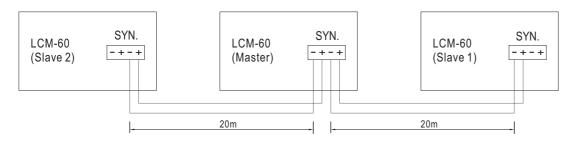
Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Output current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%~108%

※ 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%

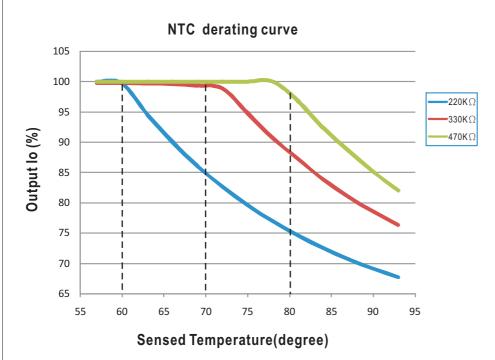
## SYNCHRONIZATION OPERATION

- 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	< $80^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > $80^{\circ}$ 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.