



■ Features :

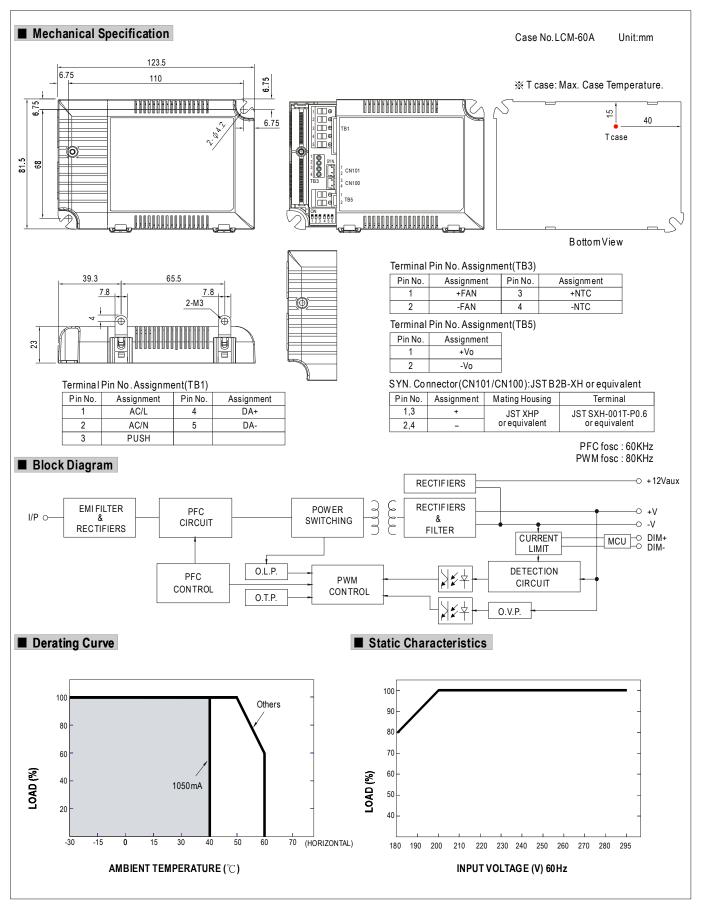
- Output current level selectable by DIP S.W.
- 180~295VAC input only
- · Built-in active PFC function
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Built-in DALI interface and push dimming function
- Built-in 12V/50mA auxiliary output
- IP20 design
- Logarithm or linear dimming curve selectable(Meet IEC62386-207)
- Temperature compensation function by external NTC
- No load power consumption <1.2W(Note.7)
- Power supplies synchronization function up to 10 units
- Suitable for indoor LED lighting applications
- 3 years warranty

SPECIFICATION



MODEL		LCM-40DA								
	SELECTABLE CURRENT Note.3	350mA	500mA	600mA	700mA	900mA	1050mA			
ОИТРИТ	DC VOLTAGE RANGE	2 ~ 100V	2 ~ 80V	2~67V	2~57V	2~45V	2 ~ 40V			
	RATED POWER	42W								
	RIPPLE CURRENT	±5%								
	RIPPLE & NOISE (max.) Note.2									
	NO LOAD OUTPUT VOLTAGE (max.)									
	CURRENT ACCURACY	±5.0%								
	SETUP, RISE TIME Note.5	1000ms, 80ms / 230VAC atrated power								
	HOLD UP TIME (Typ.)	16ms/230VAC at rated power								
		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 Factor Characteristic" curve)								
	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 75% or higher								
INPUT	EFFICIENCY (Typ.) Note.6									
	AC CURRENT (Typ.)	0.23A/230VAC								
	INRUSH CURRENT (Typ.)			sured at 50% Ineak) at 2	230VAC					
	LEAKAGE CURRENT	<0.5mA / 240VAC	COLD START 20A(twidth=260\(mu\) s measured at 50\(% \text{lpeak})\) at 230VAC							
	SHORT CIRCUIT		iting recovers a	auto matically after fault	t condition is removed					
PROTECTION		110 ~ 130V		automation, artor raun						
	OVER VOLTAGE	Protection type : Shutdown o/p voltage, re-power on to recover								
INOTECTION		90°C ±10°C (RTH2)								
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover								
	AUXILIA RY POWER	12V @ 50mA for driving fan; Tolerance ±5%								
	TEMP. COMPENSATION	By external NTC (not provide with the power supply), please see "Temperature compensation operation"								
FUNCTION	DIMMING	Please see "Dimming Operation"								
	SYNCHRONIZATION	Please see "Synchronization Operation"								
	WORKING TEMP.	-30 ~ +60°C (Refer to "Derating Curve")								
		20 ~ 90% RH non-condensing								
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
LINVINONMENT	TEMP. COEFFICIENT									
	VIBRATION	±0.03%/°C (0 ~ 50°C) 10 ~ 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								
SAFETY&	DALISTANDARDS		-		ependent approved					
		Comply with IEC62386-101, 102, 207								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC								
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015, EN61000-3-2 Class C(≥40% rated power); EN61000-3-3								
	EMC EMISSION			•			Λ			
OTHERS	EMC IMMUNITY				1547 light industry leve	i (surge 2KV), criteria	A			
	MTBF		MIL-HDBK-217F	(25 ()						
	DIMENSION	123.5*81.5*23mm (
NOTE	PACKING 0.24Kg; 54pcs/15Kg/1.12CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf parallel capacitor. 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 of the set up time. 6. Efficiency is measured at 500mA/80V output set by DIP switch. 7. No load power consumption -1.2W is measured at 180-277VAC, with lighting fixture connected and output current dimmed to 0%.									
		n<1.2W is measured	l at 180~277VA	C, with lighting fixture						

complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



40W Multiple-Stage Output Current LED Power Supply LCM-40DA series

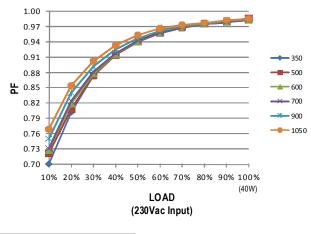
■ DIP Switch Table

LCM-40DA is a multiple-stage output current supply, selection of output current through DIP switch as table below.

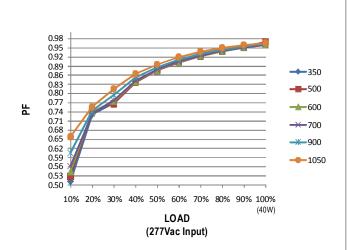
lo DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(Factory Setting)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050m A	ON	ON	ON	ON	ON	ON

■ Power Factor Characteristic

Constant Current Mode

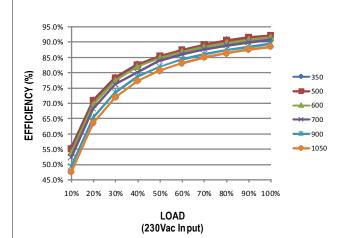


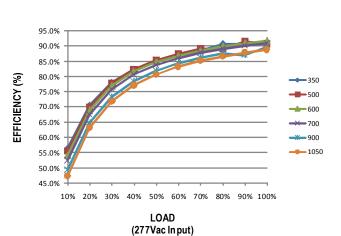
Constant Current Mode



■ EFFICIENCY vs LOAD

LCM-40DA series possess superior working efficiency that up to 91% can be reached in field applications.



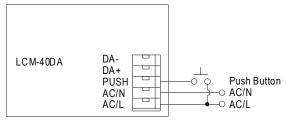


■ DIMMING OPERATION

※ PUSH dim(primary side)

Ignore	To avoid reaction on AC spike	<0.05 sec.
Shortpush	Push to turn ON-OFF	0.1~1 sec.
Longpush	Dimming up or down	1.5~10 sec.
Reset push	Setting light to 100%	>11 sec.

- · Maximum number of drivers up to 10 pcs.
- Maximum length of the cable, from push button to last driver is 20 meter.
- Factory setting at 100%.
- When the light is lower than 10% it will always dim up, or when the light output is higher than 90% it will always dim down.



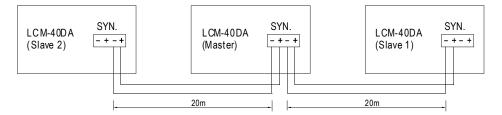
Warning: The pushbutton can only be connected in between the PUSH terminal of LCM-40DA and AC/L (brown or black color). It would cause short circuit if it is connected to AC/N.

Mal interface(primary side)

- DALI protocol including 16 groups and 64 addresses.
- First step is fixed at 6% of output.

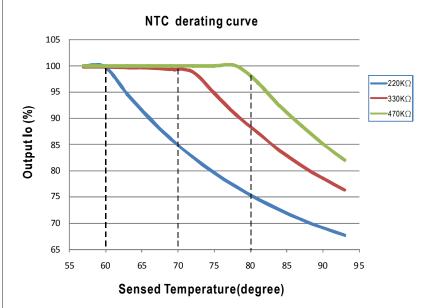
■ SYNCHRONIZATION OPERATION

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





■ TEMPERATURE COMPENSATION OPERATION



LCM-40DA have the built-in temperature compensation function (T \uparrow , lo \downarrow). By connecting a temperature sensor (NTC resistor) between the NTC +/terminal of LCM-40DA and the detecting point on the lighting system or the surrounding environment, output current of LCM-40DA could be correspondingly changed to ensure the long life of LED.

1.LCM-40 DA 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.

2.

NTC resistance	Output Current
220K	< 60°C, 100% of the rated current (corresponds to the setting current level) > 60°C, output current begin to reduce, details please refer to the curve.
330K	<70°C, 100% of the rated current (corresponds to the setting current level) >70°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.

- $2. \ If \ other \ brands \ of \ NTC \ resistor \ is \ applied, please \ check \ the \ temperature \ curve \ first.$
- 3. Synchronization function of the power supply will be invalid when the "temperature compensation" function is in use.