



## 60W Multiple-Stage Output Current LED Power Supply **LCM-60DA** series



### ■ 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 DALI interface and push dimming function
- Optional 12V/50mA auxiliary output (Model No.: LCM-60DA-AUX)
- IP20 design
- Logarithm or linear dimming curve selectable (Meet IEC62386-207)
- Temperature compensation function by external NTC
- No load power consumption <0.5W (<1.2W for LCM-60DA-AUX) (Note.7)
- Power supplies synchronization function up to 10 units
- Suitable for indoor LED lighting applications
- 3 years warranty

Elworks best.nr.:	4-294-0
Tilbehør til:	Platta serie



### SPECIFICATION

MODEL		LCM-60DA			
OUTPUT	SELECTABLE CURRENT Note.3				1050mA
	DC VOLTAGE RANGE				2 ~ 57V
	RATED POWER	60.3W			
	RIPPLE CURRENT	±5%			
	RIPPLE & NOISE (max.) Note.2	700mVp-p			
	NO LOAD OUTPUT VOLTAGE (max.)				73V
	CURRENT ACCURACY	±5.0%			
	SETUP, RISE TIME Note.5	500ms, 80ms / 230VAC at rated power			
HOLD UP TIME (Typ.)	16ms/230VAC at rated power				
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 "Power Factor Characteristic" curve)			
	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 75% or higher			
	EFFICIENCY (Typ.) Note.6	92%			
	AC CURRENT (Typ.)	0.32A/230VAC	0.27A/277VAC		
	INRUSH CURRENT (Typ.)	COLD START 20A (twidth=270µs measured at 50% I <sub>peak</sub> ) at 230VAC			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	25 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC			
PROTECTION	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		
FUNCTION	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover			
	AUXILIARY POWER (optional)	12V @ 50mA for driving fan; Tolerance ±5%			
	TEMP. COMPENSATION	By external NTC (not provide with the power supply), please see "Temperature compensation operation"			
	DIMMING	Please see "Dimming Operation"			
ENVIRONMENT	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			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)			
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
	SAFETY STANDARDS	UL8750, CSA C22.2 No.250.13-12, ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1 approved			
	DALI STANDARDS	Comply with IEC62386-101, 102, 207			
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC			
	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; GB17625.1, GB17743			
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61547 light industry level (surge 2KV), criteria A			
	MTBF	193.6K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	123.5*81.5*23mm (L*W*H)			
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 0.1µf 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 900mA/67V output set by DIP switch. 7. No load power consumption <0.5W (LCM-60DA) and <1.2W (LCM-60DA-AUX) is measured at 180~230VAC, with lighting fixture connected and output current dimmed to 0%. 8. The power supply 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.			

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