

# M18 - series



## 18W AC-DC Constant Current LED Driver with TRIAC Dimming



### Features

- Input range from 112 to 127 VAC
- AC phase-cut dimming at 120VAC
- Work with leading edge dimmer
- Built-in active PFC Function
- Constant Current design (C.C mode)
- Compact, lightweight in plastic application
- Designed for indoor application
- Protections : Over current / Short Circuit
- 3 years warranty

### Safety Approval



### Specification

Model No.		LD018D-CU08218-M18	LD018D-CU07524-M18	LD018D-CU05036-M18	LD018D-CU04342-M18	LD018D-CU03054-M18
Output	DC Voltage Range (VF)	12 - 18 V	16 - 24 V	24 - 36 V	36 - 42 V	42 - 54 V
	Rated Current	820 mA	750 mA	500 mA	430 mA	300 mA
	Current Tolerance	7%	7%	7%	7%	7%
	Rated Max. Power	18 W	18 W	18 W	18 W	18 W
	Ripple & Noise (Max.) note.2	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p
	Efficiency note.1	82%	82%	83%	83%	84%
Input	Voltage & Frequency Range	112 - 127VAC ; 60 Hz				
	AC Current (Max.)	0.2A at 120Vac				
	Power Factor	> 0.95 at 120Vac with full load.				
	Inrush Current (Max.)	30A at 120Vac				
	Leakage Current	< 1mA / 120Vac				
Protections	Over Current	100% - 120% Constant current limiting, auto-recovery				
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-10°C ~ 40°C ambient operating at full load				
	Working Humidity	20% ~ 90% RH non-condensing.				
	Storage Temp., Humidity	-20°C ~ +80°C, 10% ~ 90% RH				
Safety & EMC	Safety Standards	meet UL8750 refer UL1310 EN61347-1, EN61347-2-13				
	EMC Standards note.3	meet FCC PART15 CLASSB EN55015, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547				
	Withstand Voltage	I/P - O/P : 3.75K VAC				
	Isolation Resistance	I/P - O/P : 100M ohms / 500VDC at 25 °C				
Connection	Input	UL rated, 18 AWG x 2 C (150 mm)				
	Output	UL rated, 18 AWG x 2 C (150 mm), (Vo+, Vo-)				
Others	MTBF	100K hours min. @Ta=25 °C				
	Dimension (L*W*H)	85.3 * 38 * 27.7 mm				
	Packing (L*W*H) / Carton	430 * 255 * 185 mm ; 100pcs / 15.6 Kg				
Note	1. All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHZ bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor. 3. The power supply is considered a component which will be installed a final equipment. The final equipment must be re - confirmed that it still meets EMC directives.					