





Features

- Constant Power mode output
- Metal housing design
- Full Power at 60~100% max. current
- Built-in active PFC function
- No load power consumption <0.5W
- IP67 rating for indoor or outdoor installations
- Output current adjustable via potentiometer
- 3 years warranty

Applications

- LED flood lighting
- LED decorative lighting
- LED architectural lighting

Description

FDLC-80 series is a 80W LED AC/DC LED power supply featuring the constant power mode output, FDLC-80 operates from 180~295VAC and output current can be adjust between 1000mA to 2100mA. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -30° C ~ $+90^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. FDLC-80 is equipped with output current adjustable function so as to provide the optimal design flexibility for LED lighting system.





SPECIFICATION

		FDLC-80
	OUTPUT CURRENT	1000~ 2100mA
OUTPUT	CONSTANT POWER	80W
	OUTPUT VOLTAGE REGION Note.2	30~54V
	OPEN CIRCUIT VOLTAGE(max.)	
	CURRENT TOLERANCE	±5.0%
	SET UP TIME Note.3	500ms/230VAC
INPUT	VOLTAGE RANGE	180 ~ 295VAC (Please refer to "STATIC CHARACTERISTIC" section)
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF≧0.95/230VAC, PF≧0.90/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)
	EFFICIENCY (Typ.)	90%
	AC CURRENT (Typ.)	0.5A/230VAC 0.4A/277VAC
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=260 μs measured at 50% Ipeak)/230VAC; Per NEMA 410
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	10 units (circuit breaker of type B) / 17 units (circuit breaker of type C) at 230VAC
	LEAKAGE CURRENT	<0.75mA / 277VAC
	NO LOAD POWER CONSUMPTION	<0.5W
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed
ENVIRONMENT	WORKING TEMP.	Tcase=-30 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)
	MAX. CASE TEMP.	Tcase=+90°C
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-30 ~ +80°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	EN61347-1,EN61347-2-13 Independent, EN62384,EAC TP TC 004,IP67 approved
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
	ISOLATION RESISTANCE	I/P-O/P,I/P-FG,O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (load≧60%) ; EN61000-3-3,EAC TP TC 020
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge immunity:Line-Earth:4KV, Line-Line:2KV),EAC TP TC 020
	MTBF	498.9K hrs min. MIL-HDBK-217F (25°C)
OTHERS	DIMENSION	151*53*31.5mm (L*W*H)
	PACKING	0.454Kg; 24pcs / 11.9Kg / 0.73CUFT
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". 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. The driver 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. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 	









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