





■ 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 $180 \sim 295 \text{VAC}$ and output current can be adjust between 1000 mA to 2100 mA. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -30% $\sim +90\%$ 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.

■ Model Encoding





SPECIFICATION

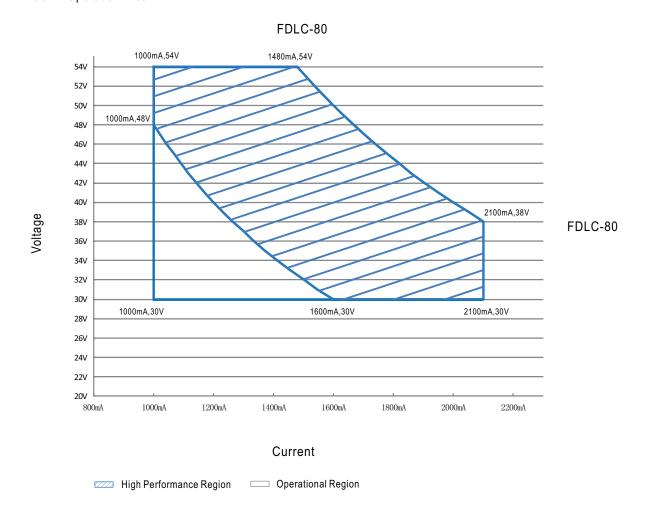
MODEL		FDLC-80			
OUTPUT CURRENT		1000~ 2100mA			
OUTPUT	CONSTANT POWER	80W			
	OUTPUT VOLTAGE REGION Note.2	30 ~ 54V			
	OPEN CIRCUIT VOLTAGE(max.)				
	CURRENT TOLERANCE	±5.0%			
	SET UP TIME Note.3	500ms/230VAC			
	OLI OI TIML Note.5				
INPUT	VOLTAGE RANGE	180 ~ 295VAC 254 ~ 417VDC (Please refer 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			
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=260µs 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	$-30 \sim +80^{\circ}$ C, $10 \sim 95\%$ 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,GB19510.1,GB19510.14,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 / 500 VDC / 25 °C / 70 % RH			
	EMC EMISSION	$Compliance \ to \ EN55015, \ EN61000-3-2 \ Class \ C \ (load \ge 60\%) \ ; \ EN61000-3-3, GB17743, GB17625.1, EAC \ TP \ TC \ 020000000000000000000000000000000000$			
	EMC IMMUNITY	$Compliance \ to \ EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry \ level (surge immunity: Line-Earth: 4KV, Line-Line: 2KV), EAC \ TP \ TC \ 020000000000000000000000000000000000$			
	MTBF	498.9K hrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	151*53*31.5mm (L*W*H)			
	PACKING	0.43Kg; 24pcs / 11.32Kg / 0.73CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". 3. 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. 4. 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. 5. 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).				



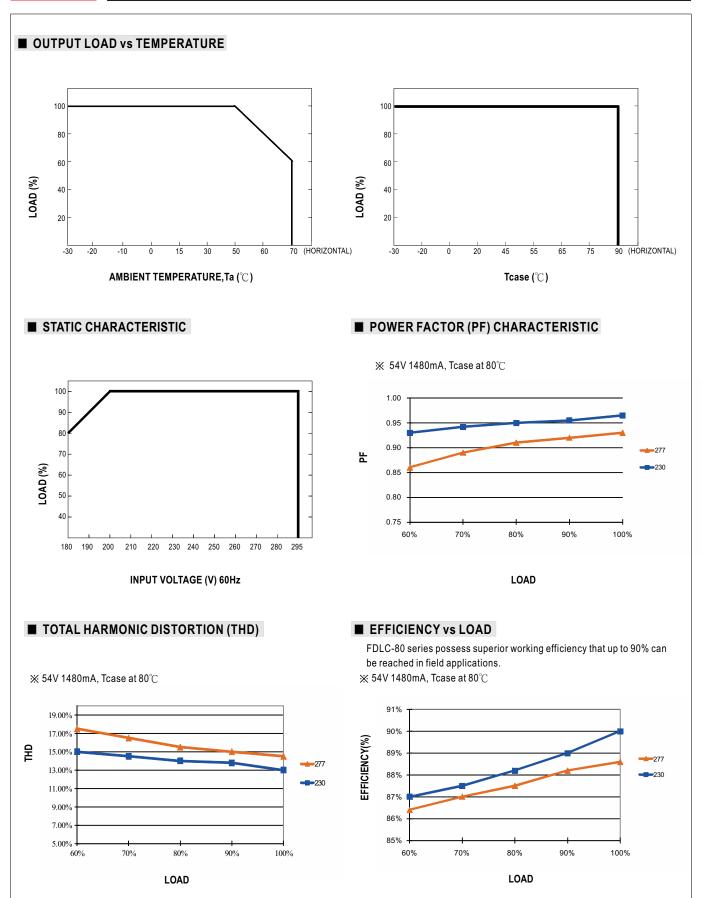
■ BLOCK DIAGRAM PWM fosc: 45~130KHz RECTIFIERS EMI FILTER POWER I/P ○ & RECTIFIERS & FILTER SWITCHING -- -V DETECTION O.T.P. O.L.P. PWM & PFC CIRCUIT CONTROL FG \circ

■ DEFAULT OUTPUT CURRENT

% I-V Operation Area









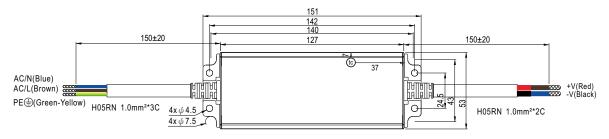
■ AC input voltage drop vs. output current characteristics

AC input drop	10%	8%	5%	3%
lo drop	<13%	<11%	<6%	<3%

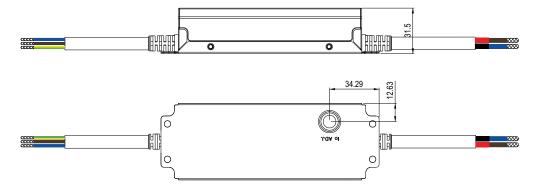
NOTE: Output current will return to the rated value within 50ms

■ MECHANICAL SPECIFICATION

CASE NO.:246A Unit:mm



• tc : Max. Case Temperature



 $\ensuremath{\mathbb{O}}$ Note: Please connect the case to FG for the complete EMC deliverance.

■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html

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