







Features

- · Constant Current mode output
- Metal housing design
- Built-in active PFC function
- No load power consumption < 0.5W
- IP65 rating for indoor or outdoor installations
- · Output current adjustable via potentiometer
- · 3 years warranty

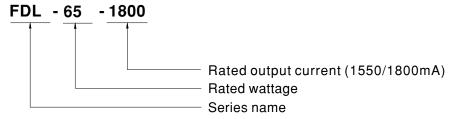
■ Applications

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

Description

FDL-65 series is a 65W LED AC/DC LED power supply featuring the constant current mode output, targeting at but not limited to LED flood lighting applications. FDL-65 operates from $180 \sim 295 \text{VAC}$ and offers models working perfectly for the voltage up to 42 V (1550 mA model) and 36 V(1800 mA model). Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for $-40 ^{\circ}\text{C} \sim +90 ^{\circ}\text{C}$ case temperature under free air convection. The design of metal housing and IP65 ingress protection level allows this series to fit both indoor and outdoor applications. FDL-65 is equipped with output current adjustable function so as to provide the optimal design flexibility for LED lighting system.

■ Model Encoding



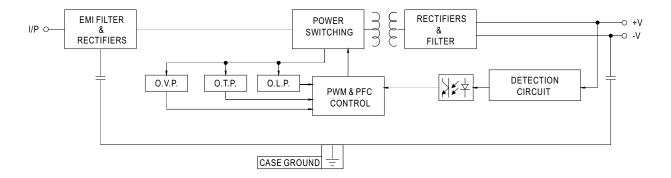
SPECIFICATION

SPECIFICATION MODEL		EDI 65 1550	FDL-65-1800	
MODEL		FDL-65-1550	1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
ОИТРИТ	RATED CURRENT	1550mA	1800mA	
	RATED POWER	65.1W	64.8W	
	CONSTANT CURRENT REGION Note.2		21.6 ~ 36V	
		50V	45V	
	CURRENT ADJ. RANGE	0.77-1.55A	0.9~1.8A	
	CURRENT TOLERANCE	±5.0%		
	SET UP TIME Note.3	500ms/230VAC		
INPUT	VOLTAGE RANGE	180 ~ 295VAC 254 ~ 417VDC (Please refer to "STATIC CHARACTERISTIC" section)		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	$ PF \! \ge \! 0.95/230 \text{VAC}, PF \! \ge \! 0.90/277 \text{VAC} \\ \text{(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%	90%	
	AC CURRENT (Typ.)	0.48A / 230VAC 0.39A/277VAC		
	INRUSH CURRENT(Typ.)	COLD START 11A(twidth=35μs measured at 50% Ipeak)/230VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	26 units (circuit breaker of type B) / 26 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	
	OVED VOLTA CE	46 ~ 56V	40 ~ 48V	
	OVER VOLIAGE	Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed		
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +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	-40 ~ +80°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	$\pm 0.03\%$ C (0 ~ 60°C)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
	SAFETY STANDARDS	LVD BS EN/EN61347-1,BS EN/EN61347-2-13 Independent, GB19510.1,GB19510.14,EAC TP TC 004, IP65 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/70% RH		
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (load ≥ 60%); BS EN/EN61000-3-3, GB17743,GB17625.1,EAC TP TC 020		
	EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Lir 4KV,Line-Line:2KV),EAC TP TC 020		EN61547, light industry level(surge immunity:Line-Earth:	
OTHERS	MTBF	594.9K hrs min. MIL-HDBK-217F (25° C)		
	DIMENSION	151*53*31.5mm (L*W*H)		
	PACKING	0.441Kg; 24pcs / 11.6Kg / 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). 			
	https://www.meanwell.com/U	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		



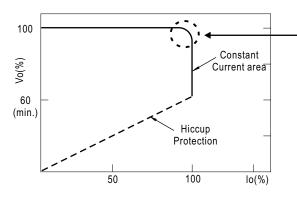
■ BLOCK DIAGRAM

PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

 $\ensuremath{\mathbb{X}}$ This series works in constant current mode to directly drive the LEDs.

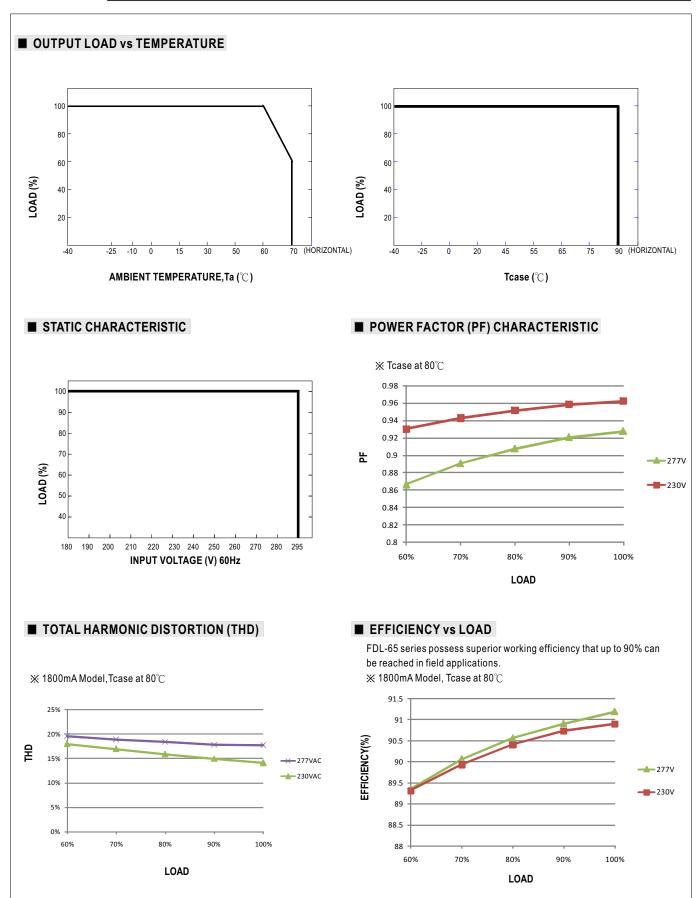


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

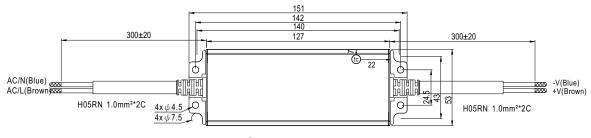




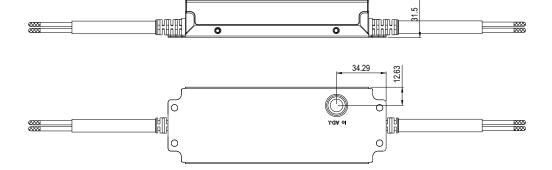


■ MECHANICAL SPECIFICATION

CASE NO.: 246A Unit:mm



ullet (tc) : Max. Case Temperature



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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