



Features

- Universal AC input: 90~305VAC, 50/60Hz
- Constant current with Two-Stage design
- Metal housing with class I design
- Function Options: Output adjustable via potentiometer, 0-10V dimming
- 5 years warranty
- TUV, UL, CE, ROHS Pending

Dimensions

	In.	mm.
Case Length	8.35	212
Case Width	2.36	60
Case Height	1.73	44
Mounting Length	8.86	225
Mounting Width	1.18	30
Overall Length	9.53	242

Applications

- LED Street Lighting
- LED High-bay Lighting
- Parking Space Lighting
- LED Fishing Lamp
- LED Greenhouse Lighting

Product Data

Model Encoding

Model No.	LDL	240	A	48	A/D/T/H
Name Rule	Series Name	Rated Wattage	PCB type	Rated Output Voltage(36/42/48/54)	Function Options

Product



Type	IP Level	Function
A	IP 67	Io and Vo Fixed
P	IP 65	Io and Vo adjustable through build-in potentiometer
D	IP 67	0-10V Dimming Function (output can be turned off)
T	IP 67	Timer Dimming Function
H	IP 67	High Voltage Output Available (contact us for more info.)

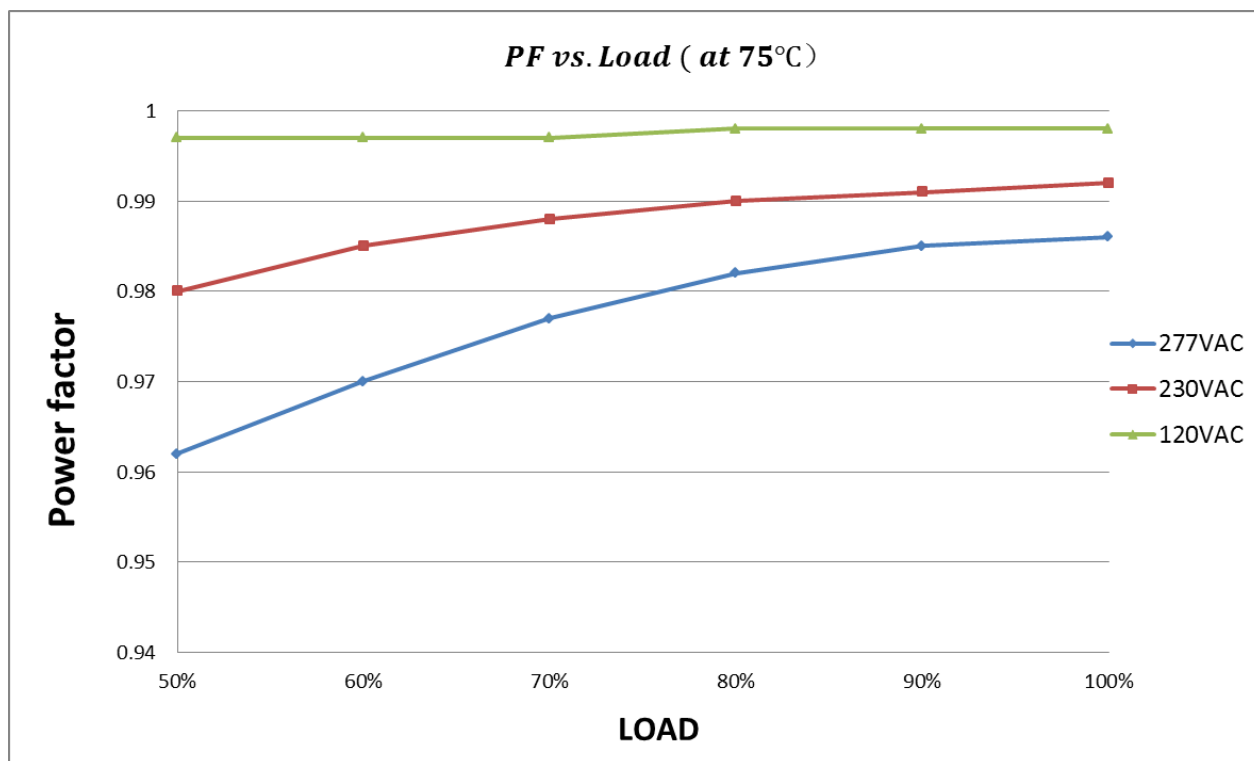
Product Electrical Specifications

Model	LDL-240A-36A/D/T	LDL-240A-42A/D/T	LDL-240A-48A/D/T	LDL-240A-54A/D/T
Input				
VOLTAGE RANGE	90-305VAC			
FREQUENCY RANGE	50-60Hz			
POWER FACTOR	PF \geq 0.99/115VAC, PF \geq 0.98/230VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)			
TOTAL HARMONIC DISTORTION	THD < 10% (@ load \geq 50% / 115VAC,230VAC; @ load \geq 75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)			
EFFICIENCY	93.5%	94%	94.5%	94.6%
AC INPUT CURRENT	2.2A @ 120VAC, 1.12A @230VAC, 0.94A @ 277VAC			
INRUSH CURRENT	COLD START <70A(twidth=570 μ s measured at 50% Ipeak) at 230VAC; Per NEMA 410			
Output				
DC VOLTAGE	36V	42V	48V	54V
CONSTANT CURRENT REGION	18V-36V	21V-42	24V-48V	27V-54V
RATED CURRENT	6.7A	5.7A	5A	4.45A
RIPPLE & NOISE (max.)	150mV	150mV	150mV	150mV
CURRENT ADJ. RANGE	3.35A-6.7A	2.85A-5.7A	2.5A-5A	2.23A-4.45A
Current TOLERANCE	\pm 1%			
SETUP, RISE TIME	880ms,30ms/120VAC, 412ms,30ms/230VAC			
Protection				
OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed			
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed			
OVER VOLTAGE	38V-40V	44V-46V	50V-52V	56V-58V
	Shut down and latch off o/p voltage, re-power on to recover			
OVER TEMP.	Shut down o/p voltage, recovers automatically after temperature goes down			
ENVIRONMENT				
WORKING TEMP.	Ta= -40 ~ +60°C, Tcase max=85°C			
WORKING HUMIDITY	20 ~ 95% RH non-condensing			
SAFETY & EMC				
SAFETY STANDARDS	Refer to UL60950-1/EN60950-1/GB4943-1995, UL1012, EN61347-1, EN61347-2-13.IP65/67.			
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, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (@ load \geq 50%) ; EN61000-3-3, GB17743 and GB17625.1			
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)			
Others				
DIMENSION	242*60*44mm			

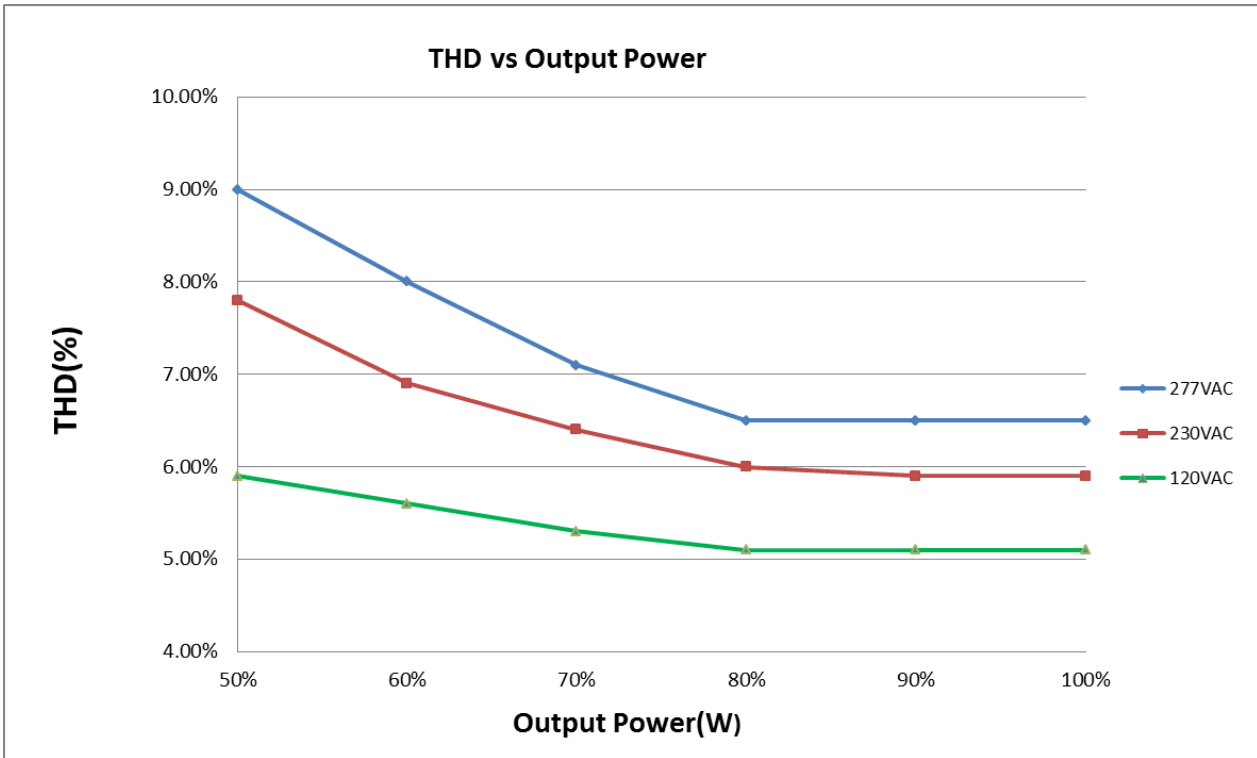
Product Electrical Specifications

All the specifications are typical and at 75°C Tcase unless specified otherwise

Power Factor vs. LOAD



Total Harmonic Distortion vs. LOAD



Efficiency vs. LOAD

