

ZLDR-24V-60W

LED Power Supply IP67, 24V

FEATURES

- CV/CC Output Model
- Active PFC, PF $\geq$ 0.95, THD $\leq$ 15%
- Ultra-thin linear size, 30mm width, suitable for ultra-small space installation
- Short circuit, over current, over voltage, and over temperature protection
- Passed EMC, anti-interference, anti radiation
- Comply with ERP instruction, standby power consumption <0.5W
- Comply with EN61347
- Widely used in LED panel, LED Strip Light, office lighting, etc
- 5 Year Warranty - Up to 50,000hrs life time



SPECIFICATION

RoHS
COMPLIANCE

CE SELV



IP67

INPUT

Input Voltage	110-277VAC, 50/60Hz
No-load power consumption	<0.5W
Input Current	0.75A/110V, 0.33A/240V, 0.27A/277V
Power Factor @ full load	PF>0.95/230Vac ; PF>0.98/115Vac
THD @ full load	$\leq$ 15% @230Vac; $\leq$ 10% @115Vac
Efficiency (Typ.)	89.5 for 24V
Inrush current (Typ.)	50A @ 230Vac
Control Surge Capability	L,N:1KV L,N-PE:2KV
Leakage Current	Max. 0.5mA

OUTPUT

DC Voltage	24V
Output voltage range	24VDC $\pm$ 0.6VDC
Constant Current Range	16.0-24V
Output Current	Max. 2.5A
Ripple and Noise	$\leq$ 500mV
Output Power Range	0-60W
Linear Regulation	$\pm$ 5%
Load Regulation	$\pm$ 3%
Start-up Time (Typ.)	500ms/230VAC 800ms/115VAC
Rise Time (Typ.)	11ms/230VAC 11ms/115VAC
Hold-Up Time (Typ.)	19ms/230VAC 19ms/115VAC

DIMENSIONS

Measurements	280x35x18 (mm) (LxWxH)
Weight	$\pm$ 10g/Pcs

PROTECTION

Short Circuit	Protection type: It can be automatically restored after the fault is eliminated
Overload	Load current load $\geq$ 102%~110%, turn off the output and automatically recovered after the fault is eliminated
Overtemperature	Protection type: turn off the output voltage, after the temperature drops, re-energize to restore
Over voltage	Output voltage $\geq$ 120%-140%, turn off the output, after the abnormality is eliminated, re-energize to recover

ENVIRONMENT

Working Temp.	ta: -30 $^{\circ}$ ~+50 $^{\circ}$ C / tc: 80 $^{\circ}$ C
Working Humidity	20~95% RH non-condensing (Waterproof)
Storage Temp. Humidity	-40 $^{\circ}$ ~+80 $^{\circ}$ C, 10~95% RH
Vibration	10~500Hz, 2G 12min./1 cycle, period for 72min.

SAFETY & EMC

Safety Standards	UL, CE, ROHS, BIS, SELV, IP67
Withstand Voltage	I/P-O/P: 3750Vac
EMC Emission	EN55015:2013; FCC Part 15B; EN61547:2009; EN61000-3-2:2014; EN61000-3-3:2013
EMC immunity	EN61000-4-2,3,4,5,6,8,11 EN61547
Isolation resistance	I/P-O/P: 100M Ω /500VDC/25 $^{\circ}$ C/70%RH

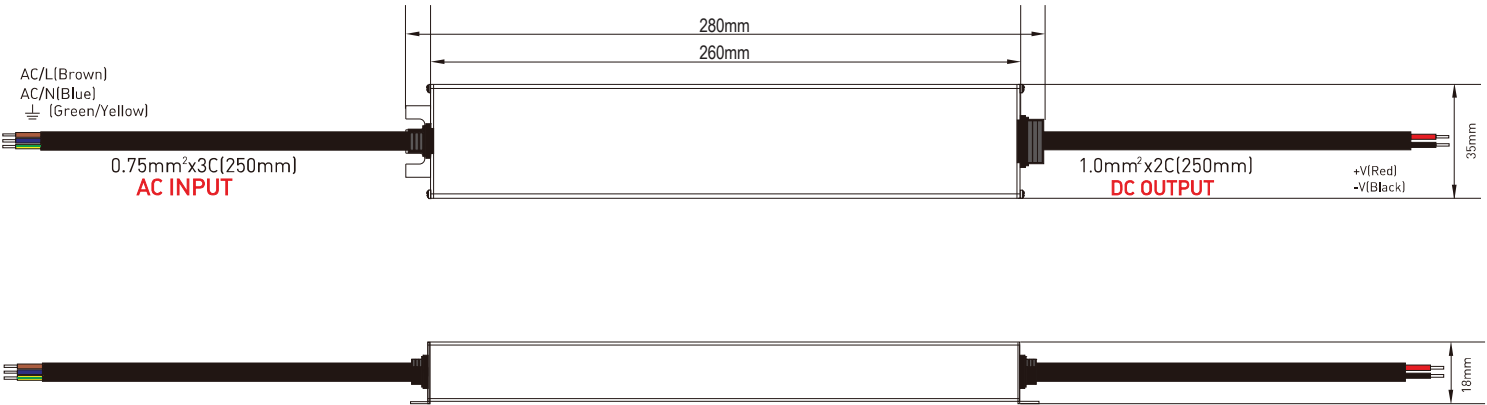
RELIABILITY & QUALITY CONTROL

Impact Aging	100% of the product is fully loaded & impacted for 4hrs under an environment of at least 40 $\pm$ 5 $^{\circ}$ C
Component Derating	Under the steady-state conditions of rated input and output, the stress of components will not exceed its maximum nominal value

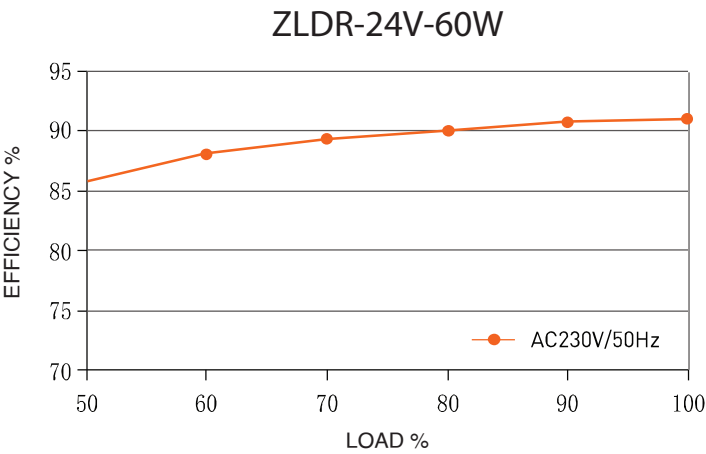
NOTE: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 $^{\circ}$ of ambient temperature.
 2. Ripple & noise test method: connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure under 20MHZ bandwidth.
 3. Ensure that the power supply is used under the rated parameters and environment.

MECHANICAL SPECIFICATION

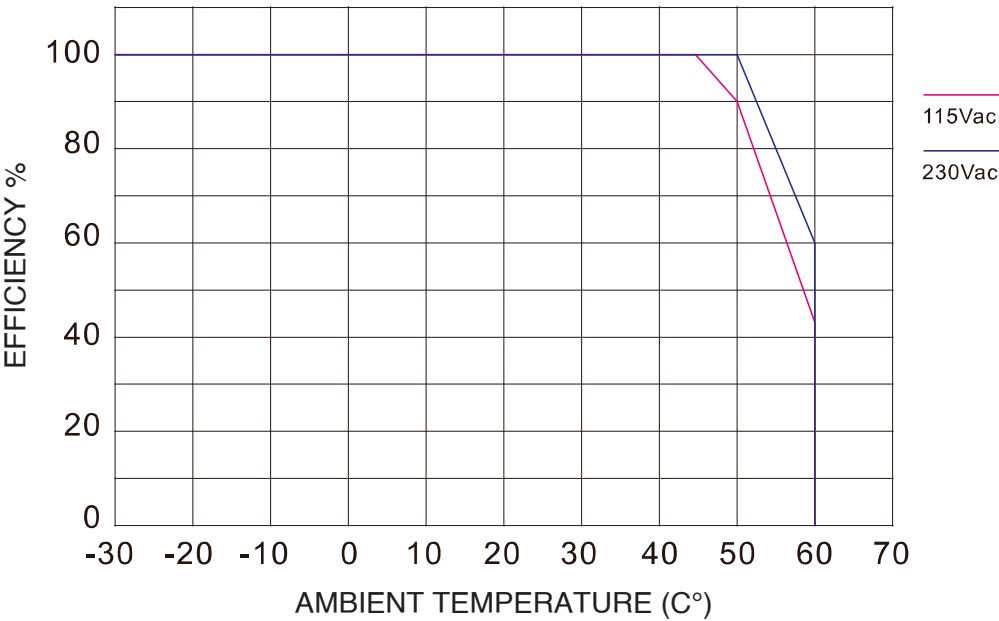
Unit: mm



EFFICIENCY VS LOAD



DERATING CURVE



ZLDR-24V-100W

LED Power Supply IP67, 24V

FEATURES

- CV/CC Output Model
- Active PFC, PF $\geq$ 0.96, THD $\leq$ 5%
- Ultra-thin linear size, suitable for ultra-small space installation
- Short circuit, over current, over voltage, and over temperature protection
- Passed EMC, anti-interference, anti radiation
- Comply with ERP instruction, standby power consumption <0.5W
- Comply with EN61347
- Widely used in LED panel, LED Strip Light, office lighting, etc
- 5 Year Warranty - Up to 50,000hrs life time

RoHS
COMPLIANCE

CE SELV



IP67

SPECIFICATION

INPUT

Input Voltage	110-277VAC, 50/60Hz
No-load power consumption	<0.5W
Input Current	1.07A/110V, 0.49/240V, 0.43A/277V
Power Factor @ full load	PF>0.96/230Vac ; PF>0.98/115Vac
THD @ full load	$\leq$ 8% @230Vac; $\leq$ 5% @115Vac
Efficiency (Typ.)	91.5 for 24V
Inrush current (Typ.)	50A @ 230Vac
Control Surge Capability	L,N:2KV L,N-PE:4KV
Leakage Current	Max. 0.5mA

OUTPUT

DC Voltage	24V
Output voltage range	24VDC $\pm$ 0.6VDC
Constant Current Range	16.0-24V
Output Current	Max. 4.17A
Ripple and Noise	$\leq$ 250mV
Output Power Range	0-100W
Linear Regulation	$\pm$ 1%
Load Regulation	$\pm$ 1%
Start-up Time (Typ.)	320ms/230VAC 400ms/115VAC
Rise Time (Typ.)	11ms/230VAC 11ms/115VAC
Hold-Up Time (Typ.)	19ms/230VAC 19ms/115VAC

DIMENSIONS

Measurements	320x35x18 (mm) (LxWxH)
Weight	374g $\pm$ 10g/Pcs

PROTECTION

Short Circuit	Protection type: It can be automatically restored after the fault is eliminated
Overload	Load current load $\geq$ 102%~110%, turn off the output and automatically recovered after the fault is eliminated
Overtemperature	Protection type: turn off the output voltage, after the temperature drops, re-energize to restore
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ENVIRONMENT

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EMC immunity	EN61000-4-2,3,4,5,6,8,11 EN61547
Isolation resistance	I/P-O/P: 100MQ/500VDC/25 $^{\circ}$ C/70%RH

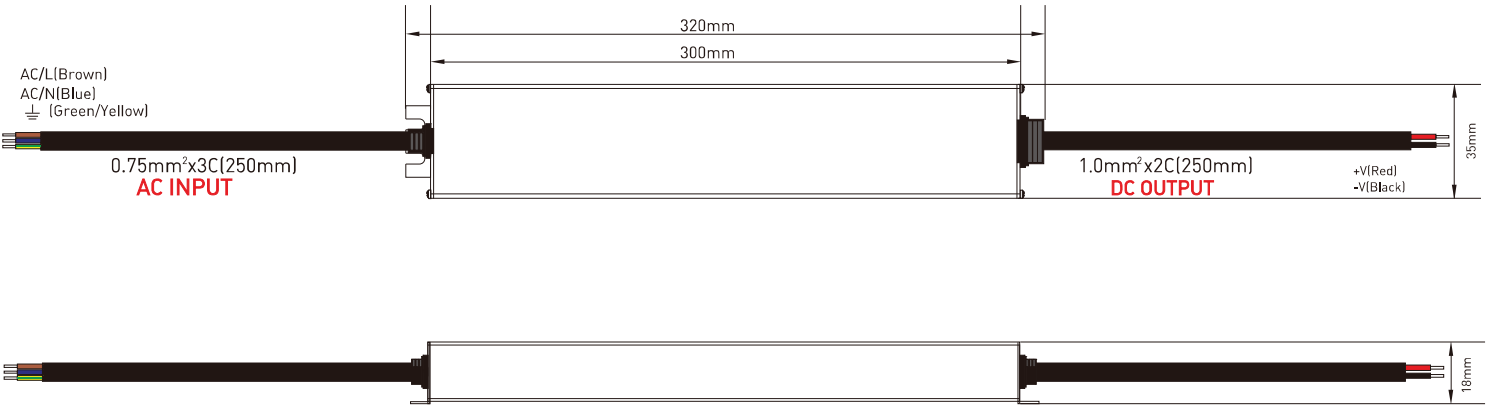
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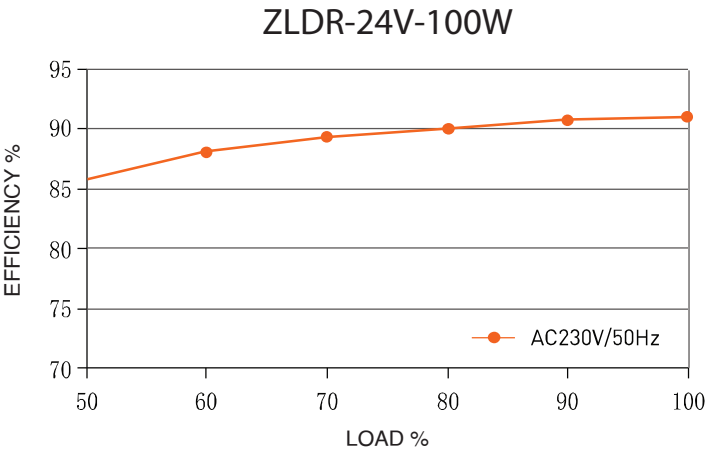
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MECHANICAL SPECIFICATION

Unit: mm



EFFICIENCY VS LOAD



DERATING CURVE

