

Features

- Class II structure
- Input voltage: 100-240Vac
- Compliant with EMC EN55035/55032 Class B
- Operating temperature up to 70°C
- Over-voltage Category: III
- Low standby power consumption, standby power consumption≤0.5W
- OVP/OLP/SCP protection
- Can be installed on DIN rail TS-35/15/7.5
- 3 years warranty



Applications

Industrial control system, industrial equipment, power system, rail transportation

Model list

Model No.	Input Voltage	Power max.	Output Voltage	Output Current max.	Efficiency typ.	Ripple Voltage	Voltage ADJ.
DL-150W-V12-EDC	100-240Vac	150W	12Vdc	12.5A	90%	240mV	±10%
DL-150W-V15-EDC	100-240Vac	150W	15Vdc	10A	90%	240mV	±10%
DL-150W-V24-EDC	100-240Vac	150W	24Vdc	6.25A	91%	240mV	±10%
DL-150W-V36-EDC	100-240Vac	150W	36Vdc	4.17A	92%	360mV	±10%
DL-150W-V48-EDC	100-240Vac	150W	48Vdc	3.13A	92%	360mV	±10%

Remark:

1. The above parameters are tested under the following conditions: Ta = 25°C, 230Vac input, and after 30 minutes of full load operation.
2. Ripple and noise measurement method: use a 12" twisted-pair wire terminated with 0.1μF & 47μF parallel capacitor, and measured at 20MHz bandwidth.

Input characteristics

Parameter	Min.	Typ.	Max.	Remark
Rated input voltage	100Vac	230Vac	240Vac	-
Input voltage range	90Vac/120Vdc	-	264Vac/370Vdc	-
Rated frequency	47Hz	50/60Hz	63Hz	-
Power factor	-	N/A	-	-
T.H.D.	-	N/A	-	-
Input current/115Vac	-	2.5A	-	100% load, 115Vac
Input current/230Vac	-	1.45A	-	100% load, 230Vac
Inrush current/115Vac	-	-	45A	115Vac, cold start (25°C)
Inrush current/230Vac	-	-	100A	230Vac, cold start (25°C)
Leakage current	-	-	0.25mA	RMS Max.

Output characteristics

Parameter	Min.	Typ.	Max.	Remark
Output tolerance	-	±2%	-	0-100% load
Line regulation	-	±1%	-	Rated load
Load regulation	-	±1%	-	@230Vac
Setup/Rise Time	-	-	500ms/100ms	@230Vac
Hold up time	16ms	-	-	100Vac, rated load

Protection

Function	Description
Output overload protection	1.3-1.8 times rated output power; hiccup restart mode, recovers automatically after fault condition is removed
Output short-circuit protection	Hiccup mode: recovers automatically after fault condition is removed
Over temperature protection	-
Output overvoltage protection	Hiccup mode or shut down at output voltage max., product not damaged; recovers automatically after fault condition is removed

Environmental

Environmental Categories	Parameter
Rated working temperature	-40 ~ +50°C@100-240Vac
Max. operating temperature range	-40 ~ 70°C; When the operating temperature exceeds 50°C, the power will be reduced by 2% for per 1°C increase in temperature. please refer to the derating curve for details.
Working humidity	20 ~ 95% RH, non-condensing
Storage temperature, humidity	-40~+80°C, 10 ~ 95% RH non-condensing
Vibration	10 ~ 500Hz, 5G 12min/cycle, 72 min, each along X, Y, Z axes
MTBF	230Khrs min. MIL-HDBK-217F (Ta=25°C)
Lifetime	50000 hours@230Vac, ambient temperature 50°C, please refer to "Lifetime/ Ambient temperature curve"

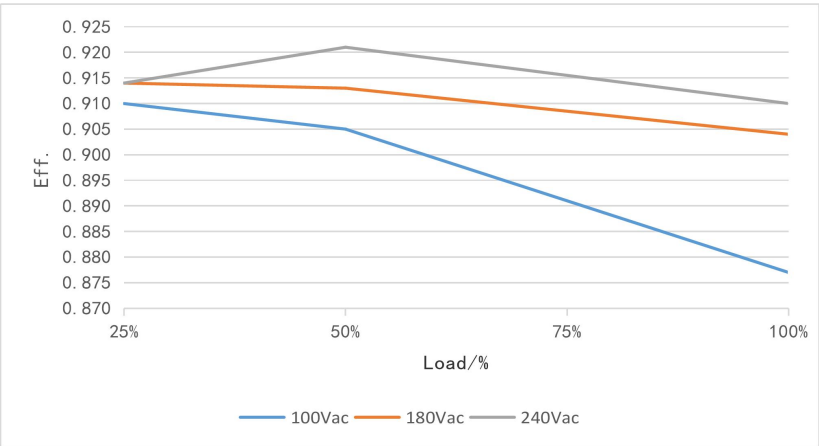
Safety and EMC

Safety categories	Standard
Safety	GB4943.1、EN62368-1、EN61558-1-2、IEC62368-1、IEC61558-1-2、AS/NZS62368-1、AS62368-1、UL62368;
EMC	EMI BS EN/EN55032、EN55035、Class B
	Harmonic Current BS EN/EN 61000-3-2 Class A
	ESD BS EN/EN 61000-4-2
	EFT/Burst BS EN/EN 61000-4-4
Surge protection	Differential mode L-N $\pm$ 2KV (2 Ω), Harmonic Current Refer to IEC61000-4-5 2014
Withstand voltage	I/P-O/P:3.75KVac
Insulation resistance	I/P-O/P:100M Ω / 500VDC / 25°C/ 70% RH

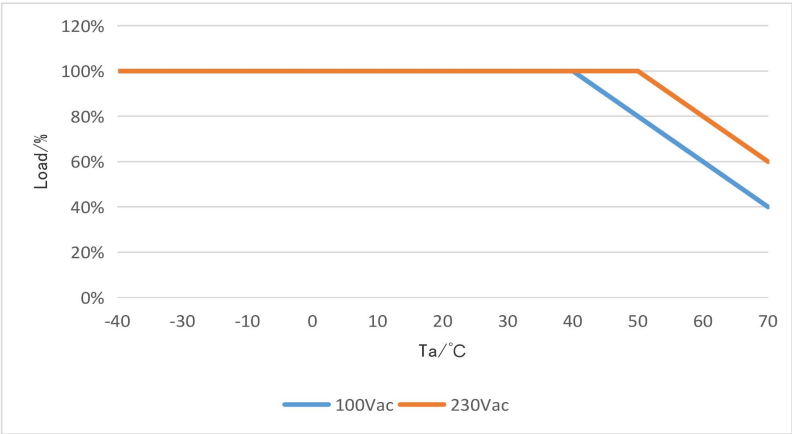
Note: The power supply is considered a component which will be installed into the terminal equipment. The EMC is affected by the entire equipment. The terminal equipment must be reconfirmed to meet the EMC directives.

Diagram

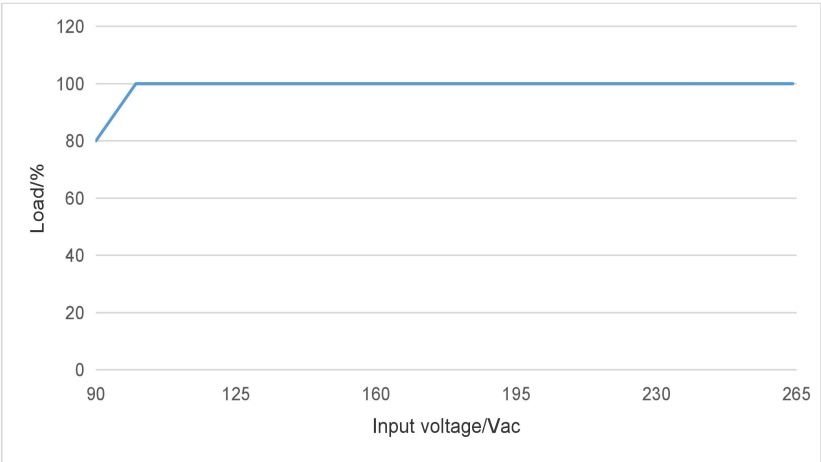
Power/ Efficiency curve



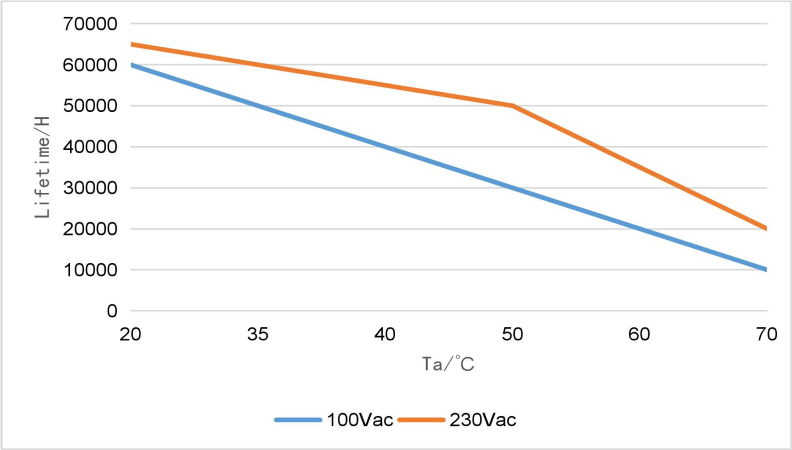
Power/ Ambient temperature



Power/ Input voltage

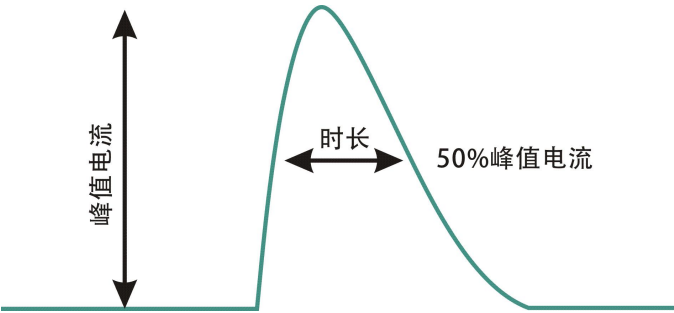


Lifetime/ Ambient temperature



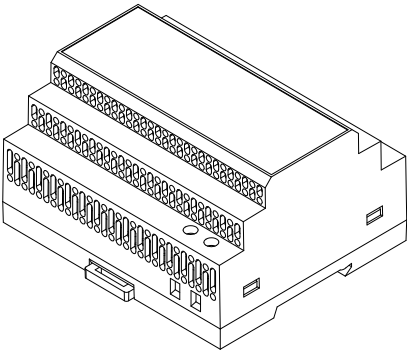
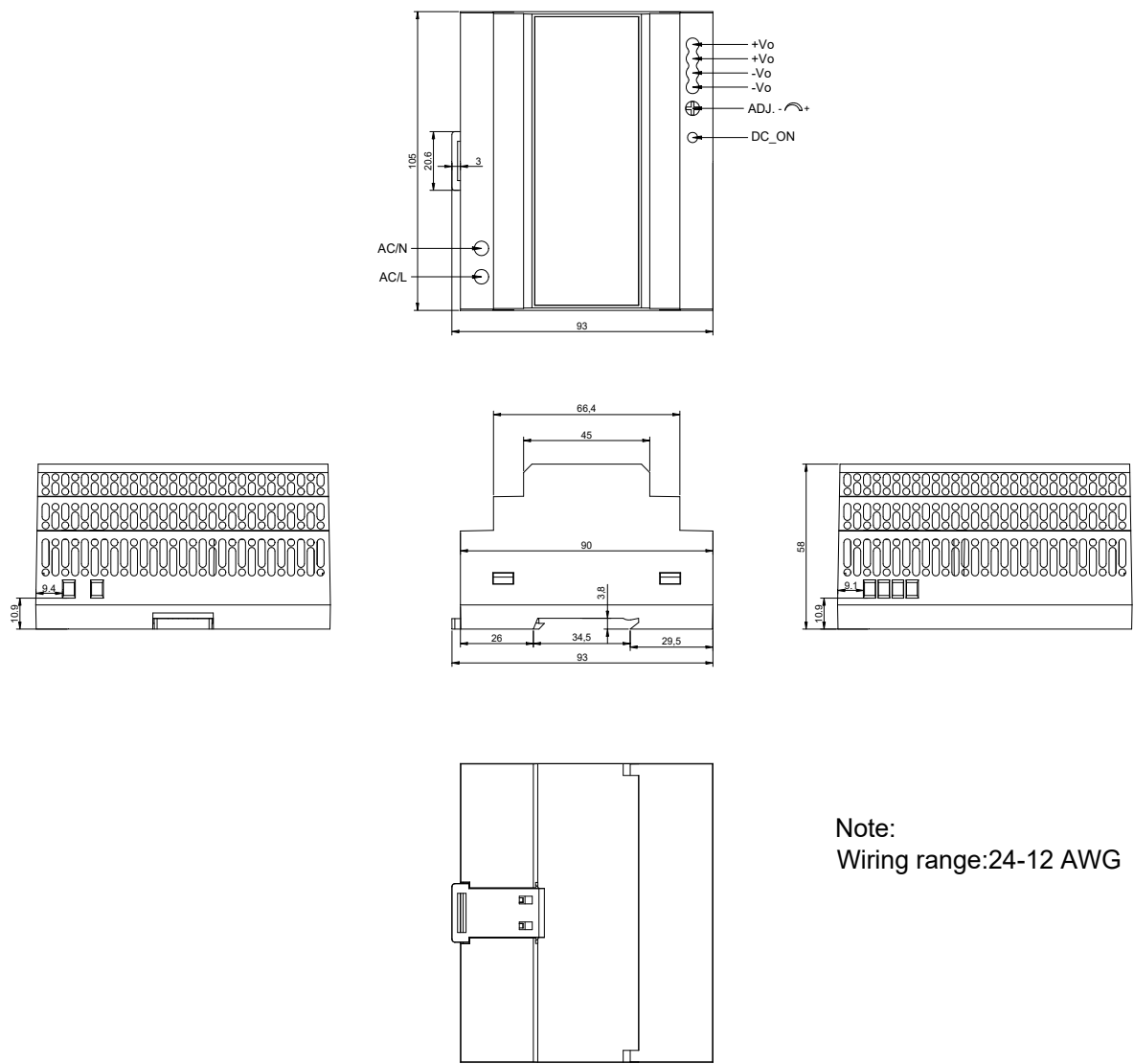
Inrush current

Input voltage	Peak current	T (@50% peak current)
100Vac	42A	350us
230Vac	98.3A	380us
240Vac	115A	338us



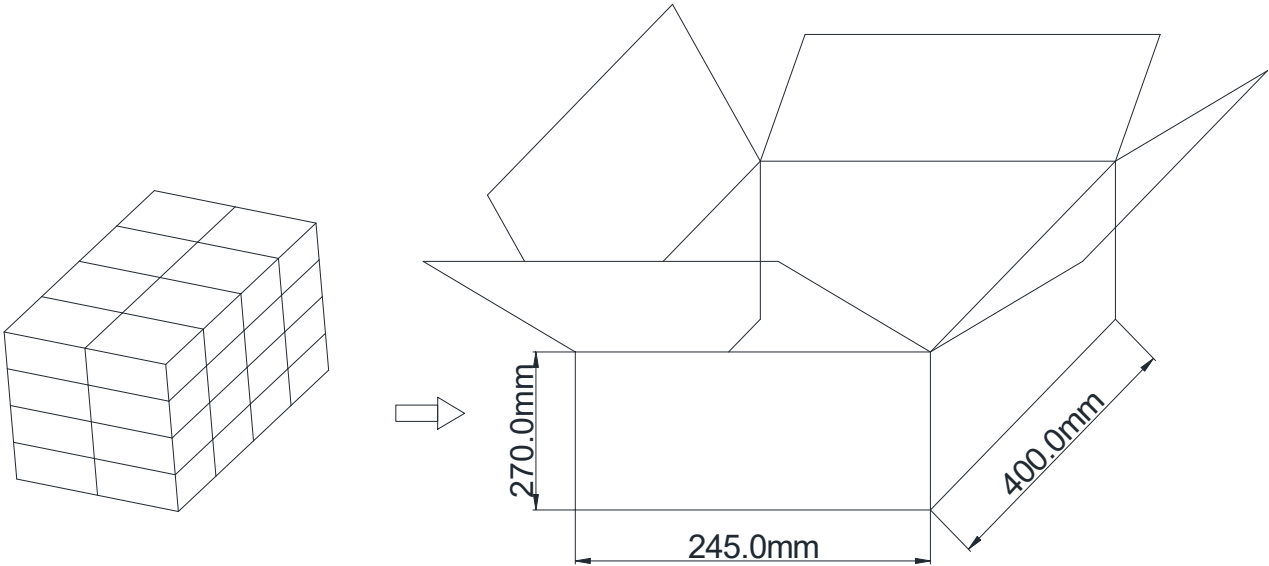
Mechanical specification

Size	L105mm*W93mm*H58mm
Weight	340g



Packaging

Packaging (mm)	L400*W245*H270mm
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NOTE:

- 1. Each box has 4 layers, with 8pieces on each layer, totaling32 pieces per box.
- 2. According to the certificates obtained by LED DRIVER, LED DRIVER with English labels are sold in Europe, America and India.
- 3. LED driver power supplies with Chinese labels are only for the Chinese market.