

Features

- 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<0.2W
- OVP/OLP/SCP protection.
- 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& Noise	Voltage ADJ.
DL-15W-V5-EXC	100-240Vac	15W	5Vdc	3A	78%	120mV	±10%
DL-15W-V12-EXC	100-240Vac	15W	12Vdc	1.25A	83%	120mV	±10%
DL-15W-V15-EXC	100-240Vac	15W	15Vdc	1A	83%	240mV	±10%
DL-15W-V24-EXC	100-240Vac	15W	24Vdc	0.63A	85%	240mV	±10%
DL-15W-V36-EXC	100-240Vac	15W	36Vdc	0.42A	85%	360mV	±10%
DL-15W-V48-EXC	100-240Vac	15W	48Vdc	0.32A	85%	360mV	±10%

Remark :

1. The above parameters are tested under the following conditions: Ta = 25℃ , 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/127Vdc	-	264Vac/373Vdc	-
Rated frequency	47Hz	50/60Hz	63Hz	-
Inrush current@100Vac	-	-	0.5A	100% load,100Vac
Input surge current@240Vac	-	-	30A	240Vac, cold start (25℃)
Leakage current	-	-	0.6mA	RMS Max.

Output characteristics

Parameter	Min.	Typ.	Max.	Remark
Output tolerance	-	±1%	-	0-100% load
Line regulation	-	±1%	-	Rated load
Load regulation	-	±1%	-	@230Vac
Setup/Rise Time	-	-	500ms/30ms	@230Vac
Hold up time	16ms	-	-	100Vac, Rated load

Protection

Function	Description
Output overload protection	1.4-1.8 times the rated output power; hiccup restart mode, which can automatically recover after the abnormal load condition is removed
Output short-circuit protection	Hiccup mode: recovers automatically after fault condition is removed
Output Over voltage Protection	The output voltage will shut down when it exceeds 1.08-1.2 times the rated voltage

Environmental

Environmental Categories	Parameter
Rated working temperature	-40 ~ +50°C@100-240Vac
Max. operating temperature range	-40 ~ 70°C; Exceeds 50°C, the power will be reduced by 2% per 1°C increase in temperature. please refer to the derating curve for details
Working humidity	20 ~ 95% RH, non-condensing
Storage temperature, humidity	-30~+85°C, 10 ~ 90% 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	30000 hours@230Vac, ambient temperature 50°C, please refer to "Lifetime/ Ambient temperature curve"

Safety and EMC

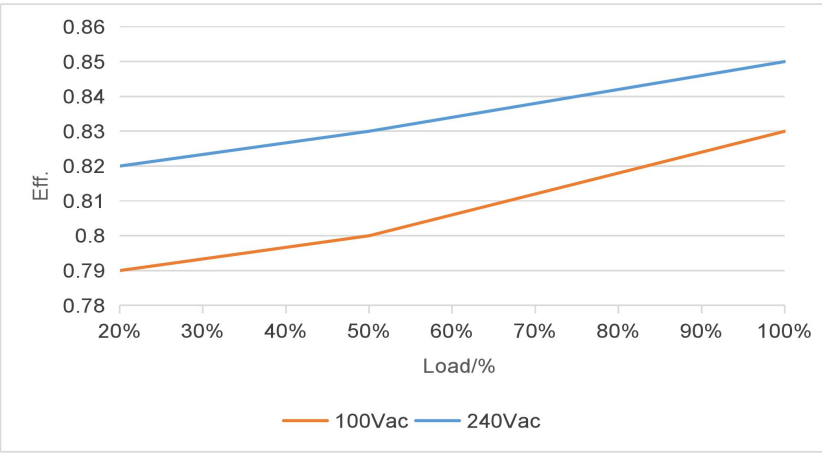
Safety categories	Standard
Safety	Compliance to UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, GB4943.1
EMC	EMI BS EN/EN55032, EN55035 Class B
	Harmonic Current BS EN/EN 61000-3-2 Class A
	ESD BS EN/EN 61000-4-2
	EFT/Burst BS EN/EN 61000-4-4
Surge protection	Differential mode L-N $\pm 2\text{KV}$ (2 Ω), common mode L, N-G $\pm 4\text{KV}$ (12 Ω) Harmonic Current Refer to IEC61000-4-5 2014
Withstand voltage	I/P-O/P: 4KVac; I/P-PE: 2KVac; O/P-PE: 1.25KVac
Insulation resistance	I/P-PE: 100M Ω / 500Vdc; I/P-O/P: 100M Ω / 500Vdc / 25°C / 70% RH

Remark:

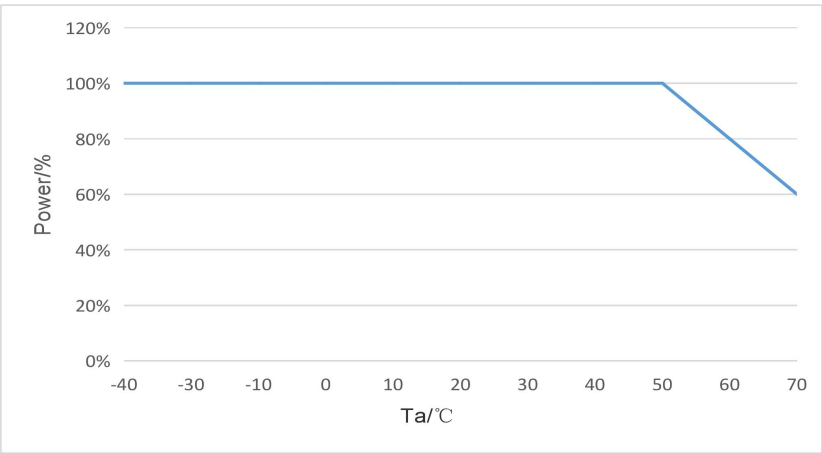
- 1.The power supply is considered a component which will be installed into the terminal equipment.
- 2.The EMC is affected by the entire equipment.
- 3.The terminal equipment must be reconfirmed to meet the EMC directives.

Parametric curves

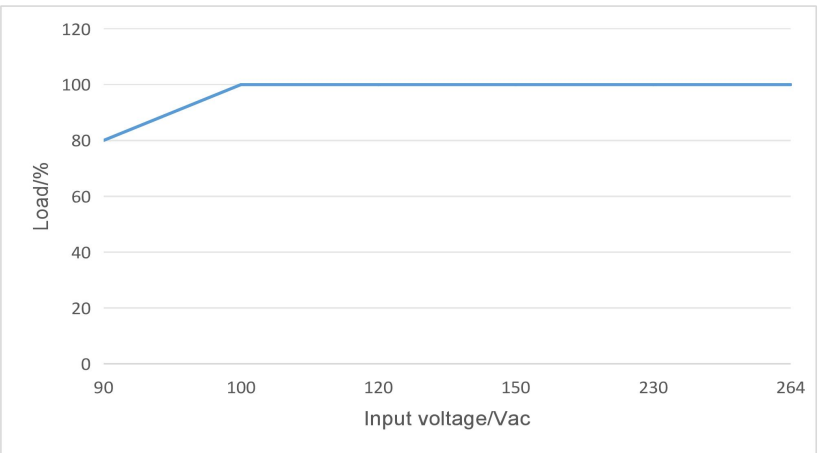
Power/Efficiency



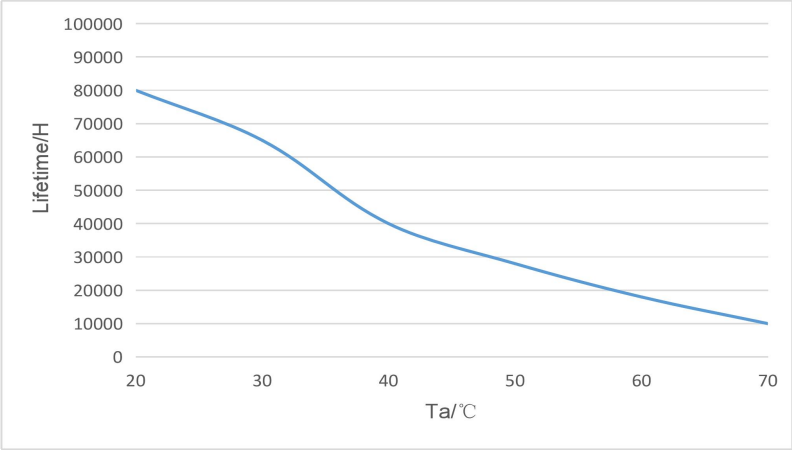
Power/Ambient temperature



Power/Input voltage

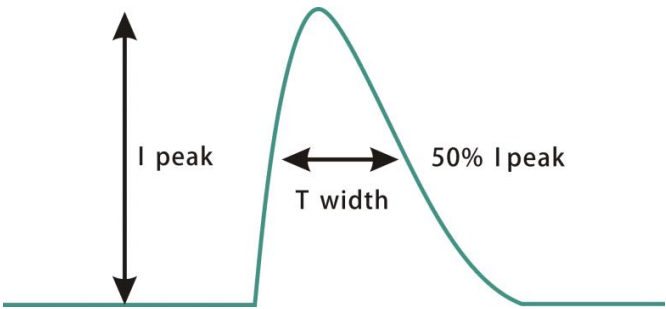


Lifetime/Ambient temperature



Inrush current

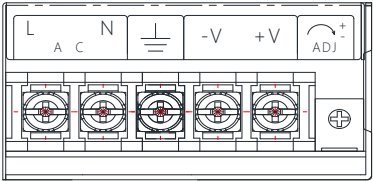
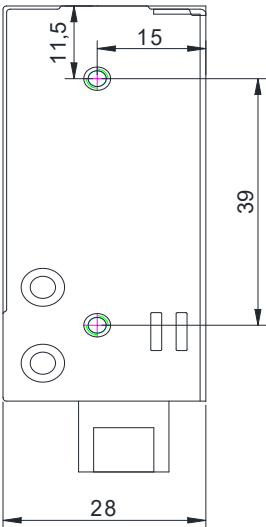
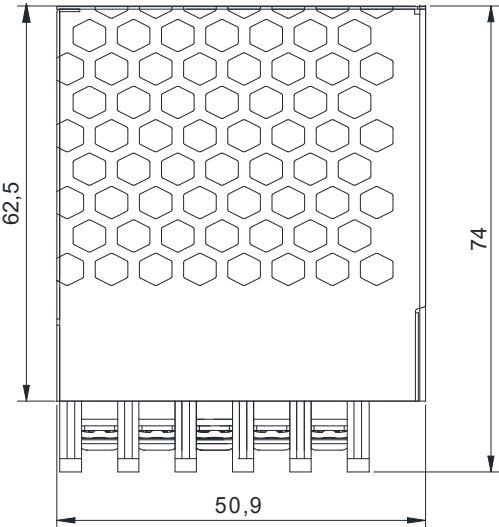
Input voltage	Peak current	T (@50% peak current)
100Vac	14A	106us
240Vac	30A	249us



Mechanical specification

Size&Weight

Size (mm) &Weight(Kg)	L74*W50.9*H28	0.105
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Packaging

Packaging (mm)	L495*W290*H215	180 PCS / Carton
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