DL-100W-EDC

Features

- Class II power supply
- Rated input voltage: 100-240Vac
- Meets EMC standards EN55035/55032 Class B
- The maximum operating temperature can reach 70°C
- Over voltage level III
- No-load power consumption ≤ 0.5W
- Short circuit, Over pressure, Overload protection
- Suitable for installation on TS-35/15/7.5 standard DIN rail
- 3-year warranty



E547387

Application

Industrial control, Industrial equipment, Power systems, Rail transit, Lighting systems

Model list

Model No.	Rated Input Voltage	Max Output Power	Output Voltage	Output Current Max.	Efficiency(Tye.)	Ripple voltage	Adjustable voltage range
DL-100W-V12-EDC	100-240Vac	90W	12Vdc	7.5A	90%	150mV	±10%
DL-100W-V15-EDC	100-240Vac	100W	15Vdc	6.67A	91%	150mV	±10%
DL-100W-V24-EDC	100-240Vac	100W	24Vdc	4.17A	91%	150mV	±10%
DL-100W-V36-EDC	100-240Vac	100W	36Vdc	2.78A	91%	250mV	±10%
DL-100W-V48-EDC	100-240Vac	100W	48Vdc	2.08A	91%	250mV	±10%

Note:

1. The above parameter test conditions are as follows: Ta=25℃, 230Vac input, and the test results are obtained after full-load operation for 30 minutes.
2. It includes setting error, linear regulation rate and load regulation rate.
3. Ripple and noise measurement method: Use a 12" twisted-pair cable, with 0.1μF and 47μF capacitors connected in parallel at the terminal, and conduct measurements under a 20MHz bandwidth.

Input Characteristics

Parameter	Min.	Typ.	Max.	Note.
Rated input voltage	100Vac	230Vac	240Vac	-
Input voltage range	90Vac	-	264Vac	DC input range: 127-373Vdc
Input frequency	47Hz	50/60Hz	63Hz	-
Input current	-	-	2.3A	Full load,@100Vac
Input surge current	-	-	71A	@240Vac, cold start (25℃)
Leakage current	-	-	0.25mA	@240Vac,RMS Max.

Output Characteristics

Parameter	Min.	Typ.	Max.	Note.
Output accuracy	-	±2%	-	50-100% load,@230Vac
Linear adjustment rate	-	±1%	-	100% load,@230Vac
Load regulation rate	-	±1%	-	50-100% load,@230Vac
Start-up time, hold time	-	-	1000ms, 30ms	100% load,@230Vac
Hold time	16ms	-	-	100% load,@230Vac

Protection

Server Side Includes	Function Description
Output overload protection	1.4 to 1.8 times the rated output power; The hiccup restart mode can automatically recover after the abnormal load conditions are removed
Output short-circuit protection	Protection mode: Hiccup mode. It can automatically recover after abnormal conditions are removed
Output overvoltage protection	The output voltage is 1.08 to 1.2 times greater than the rated working voltage. The hiccup restart mode will automatically recover after the abnormal conditions are removed

Environmental Reliability

Environmental category	参数
Rated operating temperature, humidity	-40 ~ +50℃， 20 ~ 90% RH,@100-240Vac
Maximum operating temperature range	-40 ~ +70℃,@230Vac. When the operating temperature exceeds 50℃, for every 1℃ increase in temperature, the load power should decrease by 2%. For detailed information, please refer to the derating curve
Storage temperature and humidity	-30 ~ +85℃, 10 ~ 95% RH
Vibration-resistant	10 ~ 500Hz, 5G 12 minutes per cycle, 72 minutes for each of the X, Y, and Z axes
MTBF	3271.9K hrs min. Telcordia SR-332 (Bellcore) ; 856.5K hrs min. MIL-HDBK-217F (25℃)
Lifetime	50,000 hours,@230Vac, ambient temperature 50℃. For details, please refer to the life curve

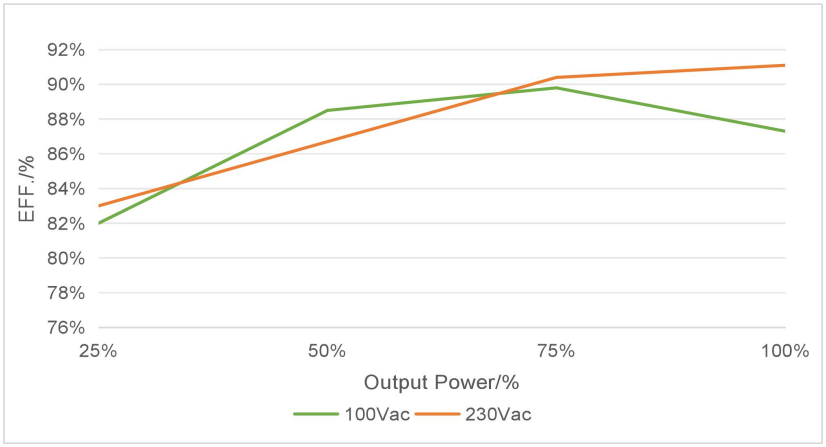
Safety and Electromagnetic Compatibility

Safety regulations category	Standard		
Safety	GB4943.1，EN62368-1，EN61558-1-2，IEC62368-1，IEC61558-1-2，AS/NZS62368-1，AS62368-1，UL62368		
EMC Electromagnetic compatibility	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	
Lightning protection grade	Differential mode L-N: ±2 KV (2Ω) , Harmonic Current refer to IEC61000-4-5 2014		
Pressure resistance	I/P-O/P: 3.75KVac		
Insulation impedance	I/P-O/P: 100MΩ / 500VDC / 25℃/ 70% RH		

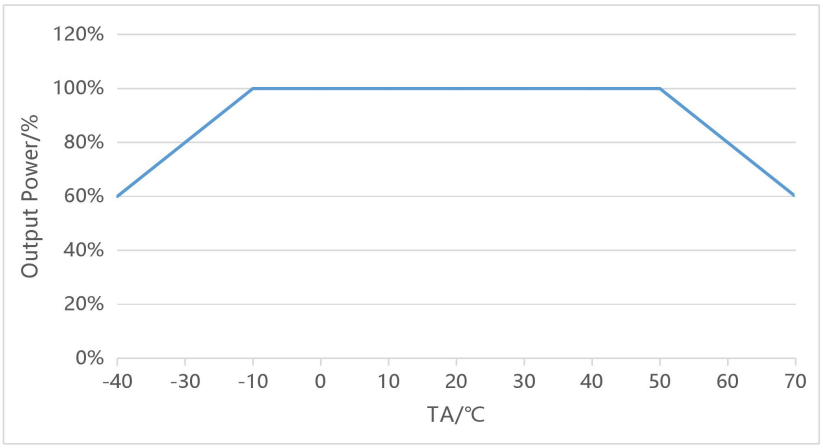
Note: As a component used in conjunction with terminal equipment, the power supply's EMC is affected by the entire set of devices. Terminal equipment manufacturers need to reconfirm the EMC of the entire set of devices.

Curve Graph

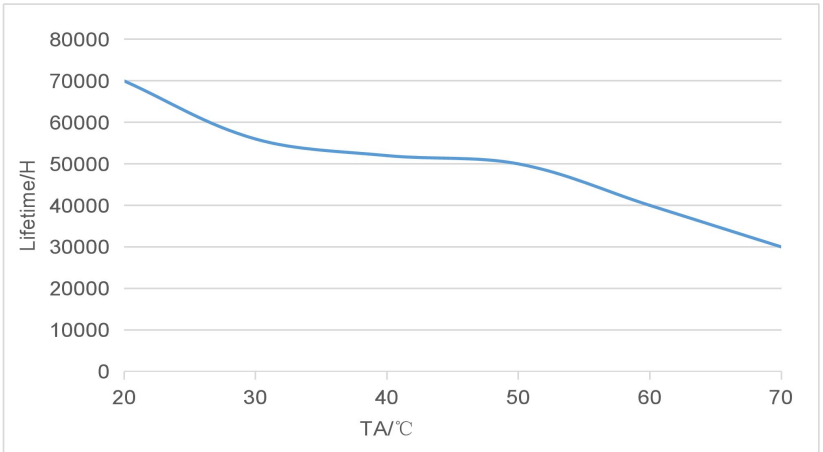
Input Power/Efficiency curve



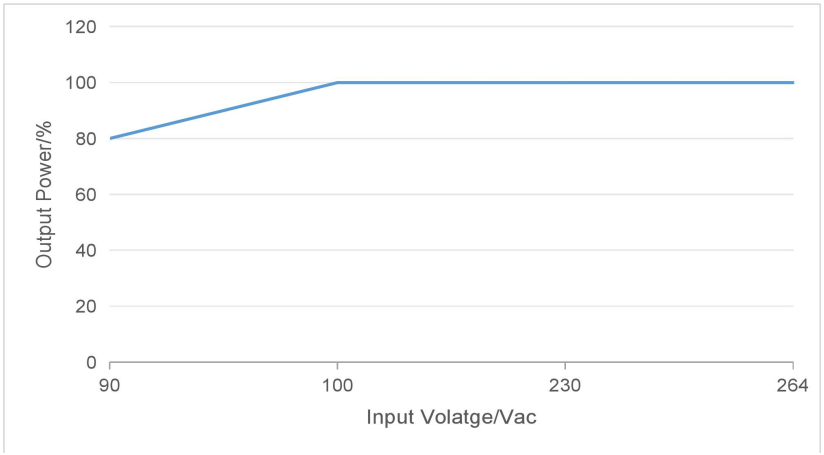
Output Power/Ambient temperature



Lifetime/Ambient temperature

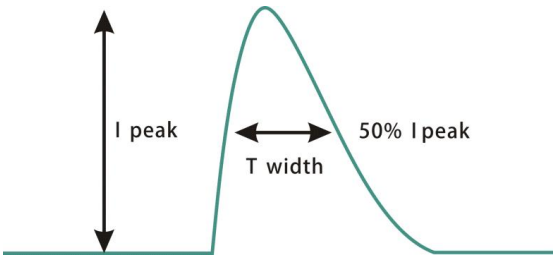


Output Power/Input Voltage



Inrush current

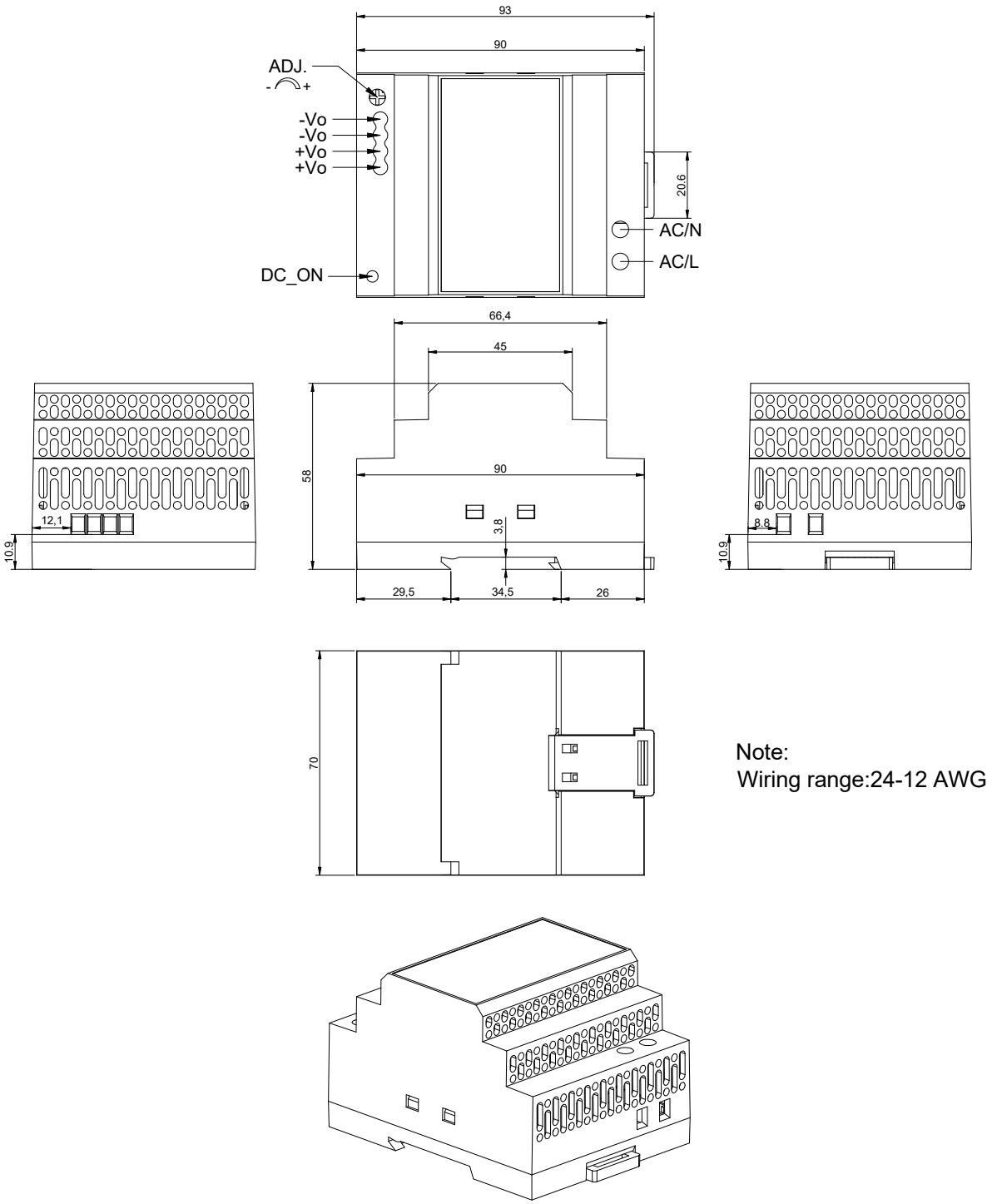
Input voltage	Peak current	T (@50% peak current)
100Vac	35A	124us
230Vac	71A	160us



Mechanical specification

Size&Weight

Size&Weight	L58*W70*H93mm	240g



Note:
Wiring range:24-12 AWG

DL-100W-EDC

Packaging

Packaging（mm）	L400*W245*H270	48 PCS / Carton

