NPZ-300 Series single output slim LED power supply

Dimension:208x50x29mm

Features:

- Constant voltage design
- 180~264VAC input range
- Protections: Short circuit/Over load
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 2 years warranty

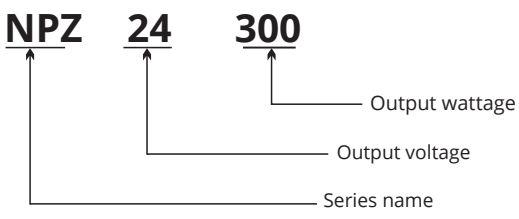
Applications:

- LED strip lighting
- LED tube lighting
- LED luminous character lighting
- LED light box/cabinet

Description:

NPZ-300 is one economical slim 300W LED power supply series. The body is designed 29mm in height,which allows space saving inside the LED lighting boxes/cabinets.NPZ-300 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 92%, the entire series can operate at the ambient temperature between-20°c and 50°C under air convection. It is equipped with constant current mode for over- load protection, fitting various LED applications.The complete protection functions and relevant certificates for LED lighting(IEC EN 61347-1,UL 8750) make NPZ-300 a very competitive power supply solution for LED lighting applications.

Model Encoding



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T-LED

SPECIFICATION

MODEL		NPZ-12-300	NPZ-24-300	NPZ-48-300
Output	DC voltage	12V	24V	48V
	Rated current	25A	12.5A	6.3A
	Current range	0~25A	0~12.5A	0~6.3A
	Rated power	300W	300W	302.4W
	Ripple&noise	180mVp-p	200mVp-p	500mVp-p
	Voltage tolerance Note.3	±2.0%	±2.0%	±2.0%
	Line regulation Note.4	±0.5%	±0.5%	±0.5%
	Load regulation Note.5	±1.0%	±1.0%	±1.0%
	Setup,rise,hold up time	200ms,20ms,24ms/230VAC		
Input	Voltage range	180~264VAC 47~63Hz, 282~339VDC		
	Efficiency	89%	91%	92%
	AC current	3.2A/230VAC		
	Inrush current	Cold start 60A/230VAC		
	leakage current	<2mA/240VAC		
Protection	Overload	Rated output power105%~115%Start overload protection		
		Protection type:Hiccup mode,auto-recovery after fault condition is removed		
Environment	Working temp& humidity	-20°C~+50°C(Please refer to“derating curve”)20%~90%RH,Non-condensing		
	Storage temp& humidity	-40~+85°C,10~95%RH,Non-condensing		
	Temperature coefficient	±0.03%/°C(0~50°C)		
	Withstand vibration	10~500Hz,2G 10min./1Cycle,Period for 60min,Each axes		
Safety	Withstand voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC		
	Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH		
Standards compliance	Safety standards	Compliance to UL 8750,IEC EN 61347-1		
	EMC emission	Compliance to EN 55015(CISPR32)Class A,EN 61000-3-2		
	EMC immunity	Compliance to EN 61547		
Others	Dimension	208*50*29mm(L*W*H)		
	Weight	0.35kg/70pcs/25.5kg/1.07CUFT/0.03m³		

Note:
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100% rated load
6. The ambient temperature derating of 5℃/1000 m is needed for operating altitude greater than 2000m(6500ft)
7. The power supply is considered as a component which will be installed into a finalequipment.The final equipment must be re-confirmed that it still meets EMC directives.For guidance on how to perform these EMC tests.

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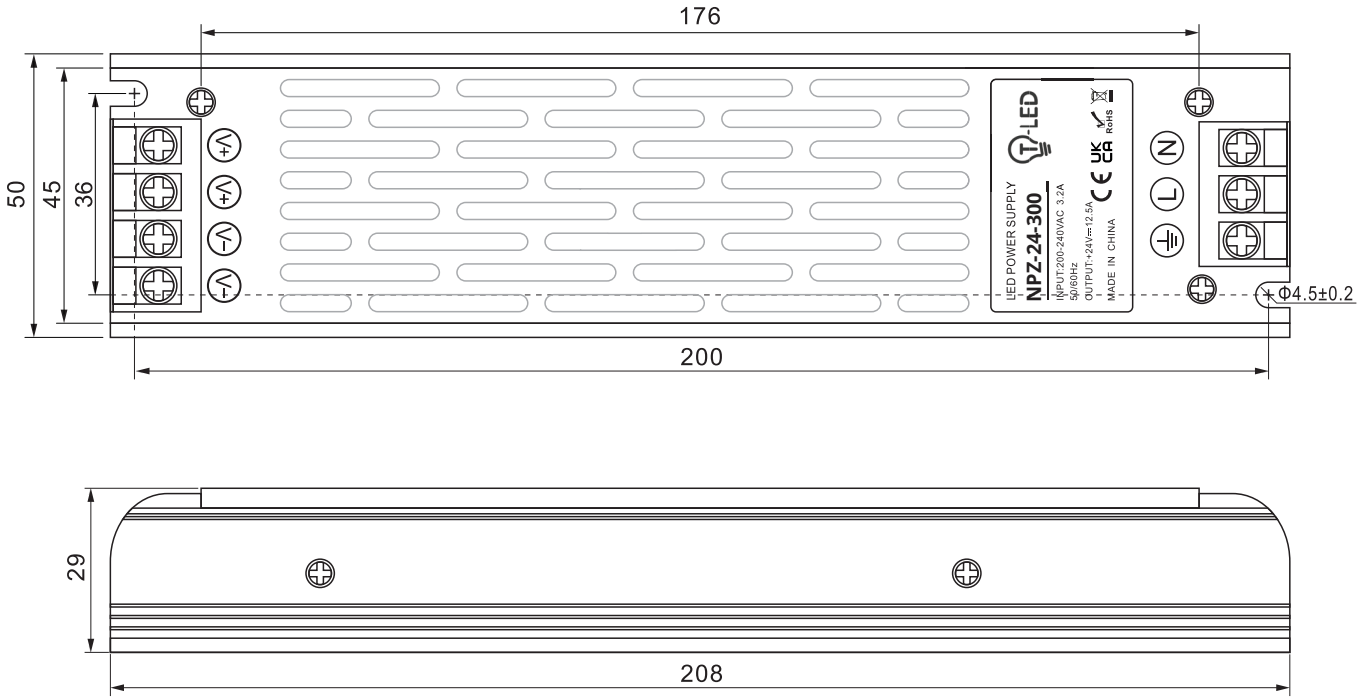
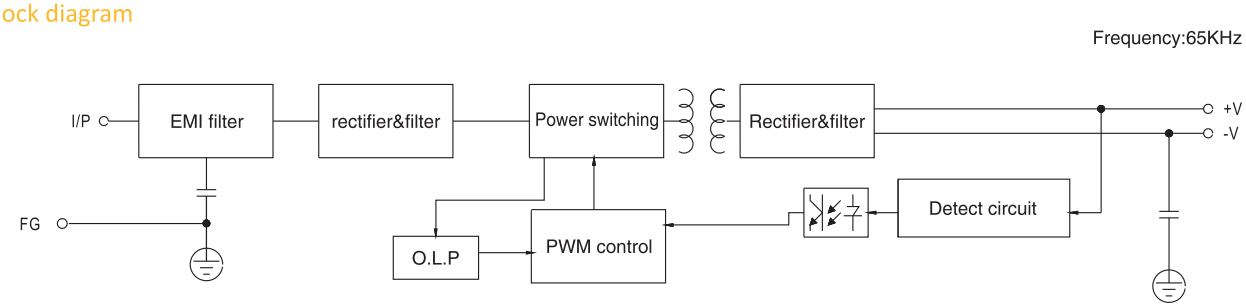
Mechanical specification

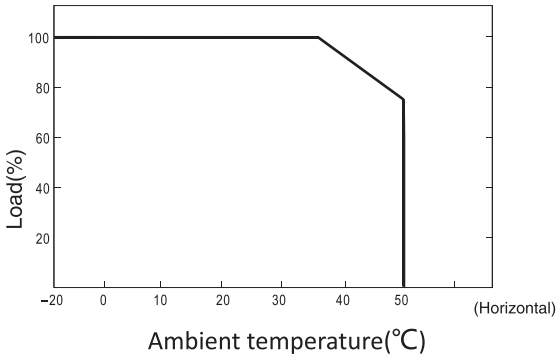
Unit:mm



Block diagram



Derating curve



Static characteristic