

PRODUCT DATASHEET

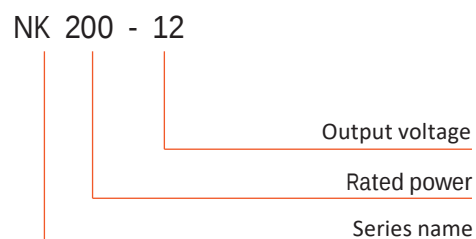
- Product characteristics
- Wide voltage input (90-132VAC/180-264VAC)
- Protection: OCP/OVP/Short circuit protection
- Operating temperature range -30°C to +60°C
- 3kV isolation voltage
- 100% high temperature aging and testing
- 3 years quality assurance



MODEL LIST

Model	Input voltage	Rated power	Output voltage	Voltage adjustable range	Rated current	Ripple & Noise	efficiency
NK200-12	90-132Vac 180-264Vac Switching through a switch	200W	12V	10.2-13.8V	17A	150mV	85%
NK200-15		200W	15V	13.5-18V	14A	150mV	86%
NK200-24		200W	24V	21.6-28.8V	8.8A	150mV	87%
NK200-36		200W	36V	32.4-39.6V	5.9A	200mV	88%
NK200-48		200W	48V	43.2-52.8V	4.4A	200mV	88%

NAMING CONVENTION

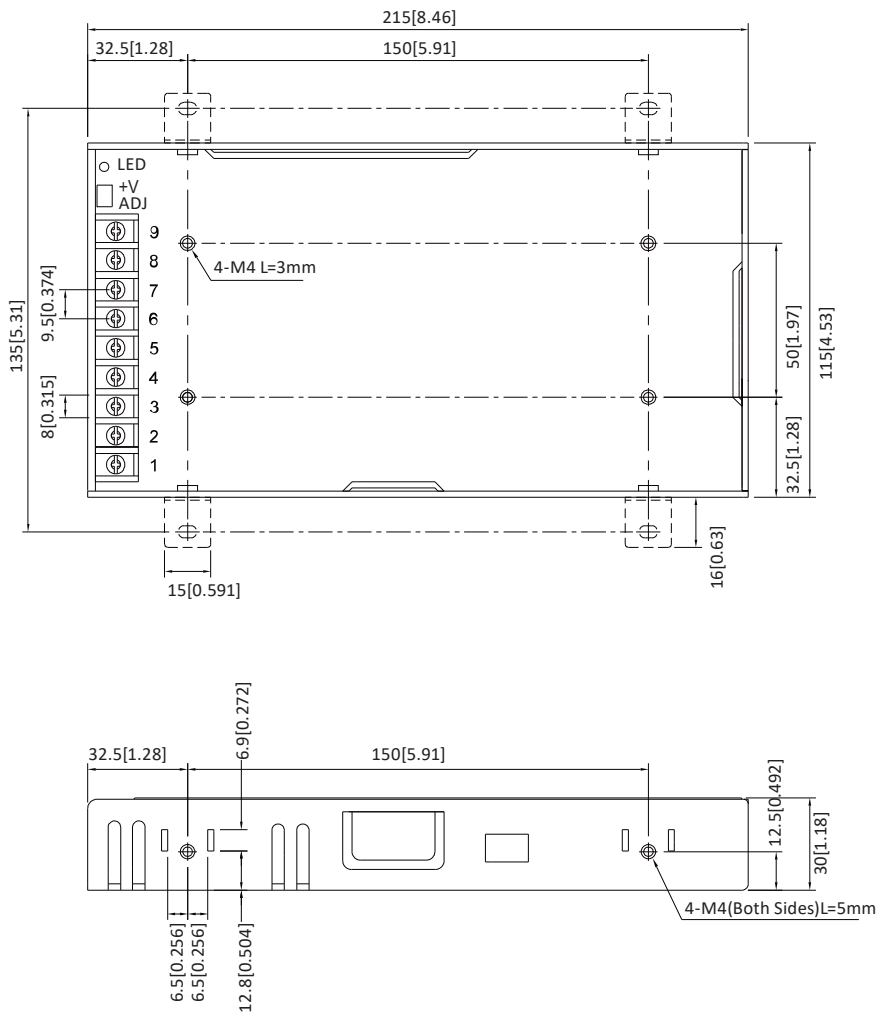


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TECHNICAL PARAMETER

Output characteristic	Output voltage accuracy	±2.0%					
	Linear adjustment rate	±1.0%					
	Load adjustment rate	±1.5%					
	Start, rise time (typical)	≤1500ms, ≤50ms/230VAC Full Load					
	Holding time (typical value)	≥120ms/230VAC Full Load					
Input characteristic	Input voltage range	90-132VAC/180-264Vac Switching through a switch					
	Input frequency	47-63Hz,440Hz Max					
	Input current (typical)	3.2A/115VAC 2.0A/230VAC					
	Impulse current (typical)	Cold start 60A/230VAC					
	Leakage current (typical)	<1mA/240VAC					
Protective characteristic	Overload protection	110-145% of rated power, hiccup mode, can automatically return to normal work after abnormal load removal					
	Overvoltage protection	12-36V hiccup mode, can automatically recover after removing abnormal conditions; 48V shutdown output voltage, restart to restore					
		Model	NK200-12	NK200-15	NK200-24	NK200-36	NK200-48
		Guard point	13.5-16V	16.8-19.5V	27-32V	40-48V	53-60V
	Short circuit protection	Power supply protection after short circuit in the output end. After eliminating short circuit, it can automatically return to normal operation					
Over Temperature Protection	12-36V hiccup mode, can automatically recover after the temperature drops; 48V shutdown output voltage, restart to restore						
Working environment	Operating temperature	-25℃ to +70℃ (refer to derating curve)					
	Working humidity	10-85%RH non-condensing					
	Storage temperature	-40℃ to +105℃, 10-95% RH					
	Temperature drift coefficient	0.03%/(0℃-50℃)					
	Vibration coefficient	10-500Hz, 2G10 minutes/cycle, X, Y, Z axis 60 minutes each					
Safety and electromagnetic compatibility	Safety standard	IEC62368, EN62368, UL62368					
	Insulation voltage	I/P-O/P: 3.0kVAC I/P-FG: 1.5kVAC O/P-FG: 0.5kVAC					
	Insulation resistance	I/P-O/P,I/P-FG,O/P-FG: >100M Ohms/500VDC 25℃ 70% RH					
	Conduction & Radiation	EN55011, EN55022 (CISPR22) class A					
	ESD	IEC/EN 61000-4-2 level 4 Contact ±8kV/Air ±15kV					
	Radiated Susceptibility	IEC/EN 61000-4-3 level 4					
	EFT	IEC/EN 61000-4-4 level 4 4kV					
	SURGE	IEC/EN 61000-4-5 level 4 2kV					
other	MTBF	165K hrs min. MIL-HDBK-217F(25)					
	Volume	215*115*30mm (L*W*H)					
Remark	The above data are measured at TA=25℃, humidity <75%, nominal input voltage 230VAC and rated output load unless otherwise specified.						
	Ripple and noise measurement method: a 300mm twisted pair wire is used, and the terminal should be connected in parallel with a 0.1uF high-frequency ceramic capacitor and a 47uF electrolytic capacitor, and measured at 20Mhz bandwidth.						
	The power supply is regarded as a component in the system and needs to be verified for electromagnetic compatibility with the terminal device.						

OVERALL DIMENSION

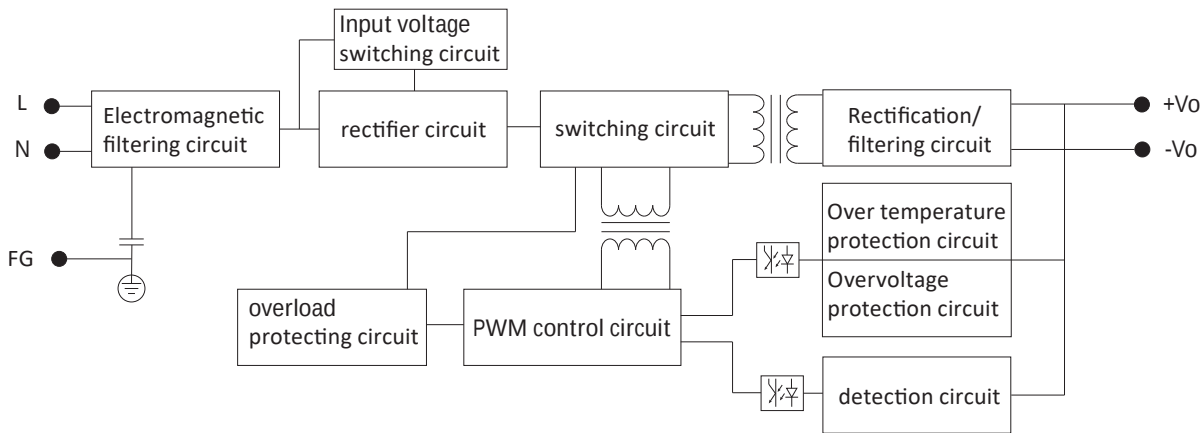


Pin definition

Pin	definition
1	AC(L)
2	AC(N)
3	FG
4 5 6	Output -
7 8 9	Output +

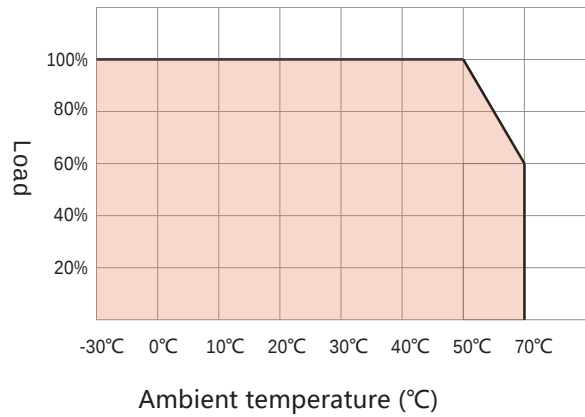
Unit: mm[inth]

PRODUCT FRAME DRAWING

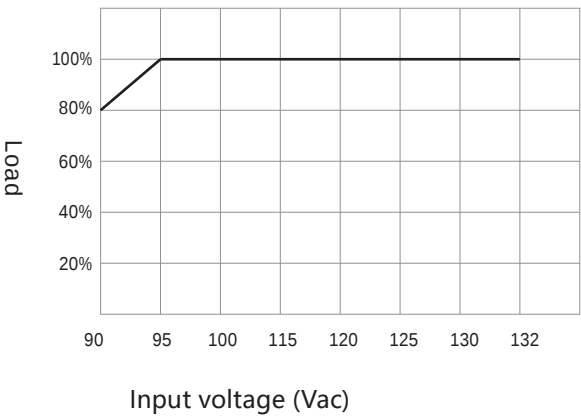


DERATING CURVE

Temperature derating curve



Input voltage reduction curve
90-132Vac



Input voltage reduction curve
180-264Vac

