

## PRODUCT DATASHEET

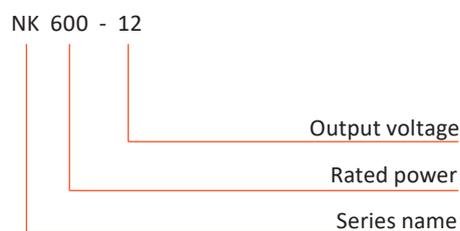


- Product characteristics
- Wide voltage input (180-264VAC)
- Protection:OCP/OVP/Short circuit protection
- Operating temperature range -30°C to +60°C
- 2kV isolation voltage
- 100% high temperature aging and testing
- 3 years quality assurance

## MODEL LIST

Model	Input voltage	Rated power	Output voltage	Voltage adjustable range	Rated current	Ripple & Noise	efficiency
NK600-24	180-264Vac	600W	24V	21.6-28.8V	25A	200mV	87.5%
NK600-36	180-264Vac	600W	36V	32.4-39.6V	16.7A	300mV	88%
NK600-48	180-264Vac	600W	48V	43.2-52.8V	12.5A	300mV	88%

## NAMING CONVENTION



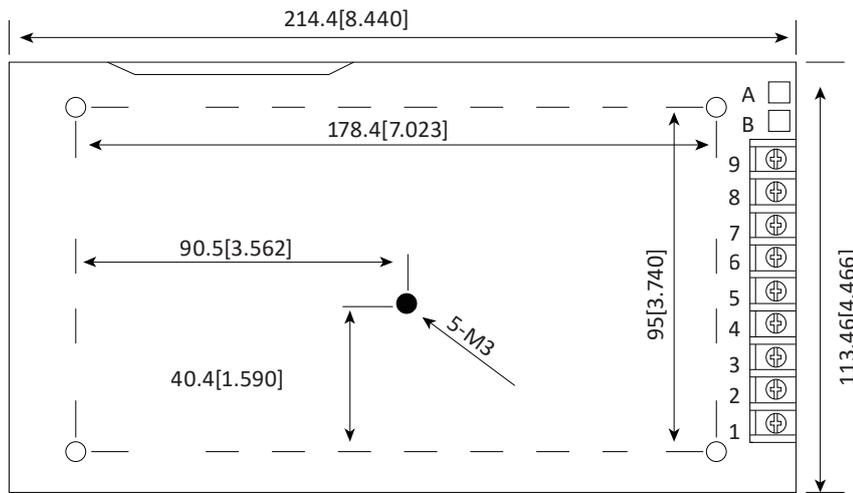
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## TECHNICAL PARAMETER

Output characteristic	Output voltage accuracy	±2.0%			
	Linear adjustment rate	±1.0%			
	Load adjustment rate	±1.0%			
	Start, rise time (typical)	≤2000ms, ≤100ms/230VAC Full Load			
	Holding time (typical value)	≥10ms/230VAC Full Load			
Input characteristic	Input voltage range	180-264VAC			
	Input frequency	47-63Hz			
	Input current (typical)	7A/115VAC			
	Impulse current (typical)	Cold start120A/230VAC			
	Leakage current (typical)	<0.5mA/230VAC			
Protective characteristic	Overload protection	105-125% 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	NK600-24	NK600-36	NK600-48
		Guard point	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			
Working environment	Operating temperature	-30°C to +60°C (refer to derating curve)			
	Working humidity	20-90%RH non-condensing			
	Storage temperature	-40°C to +85°C, 10-95% RH			
	Temperature drift coefficient	0.03%/(0°C-50°C)			
	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: 2.0kVAC 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°C 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	18K hrs min. MIL-HDBK-217F(25)			
	Volume	215*115*50mm (L*W*H)			
Remark	The above data are measured at TA=25°C, 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.				

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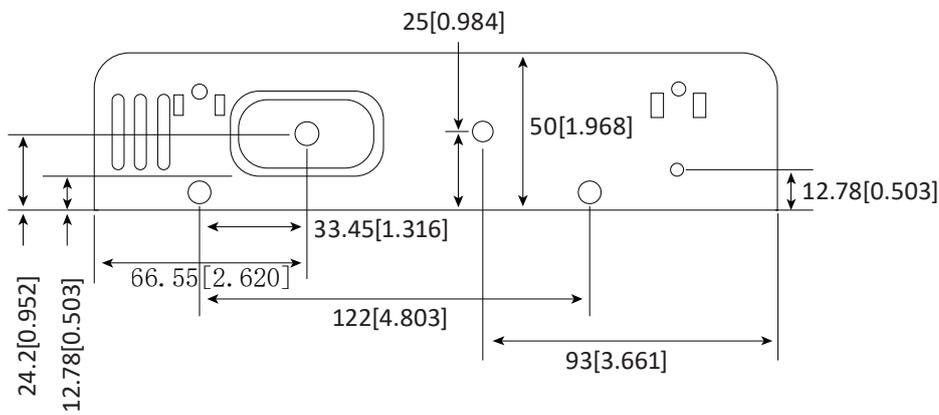
## OVERALL DIMENSION



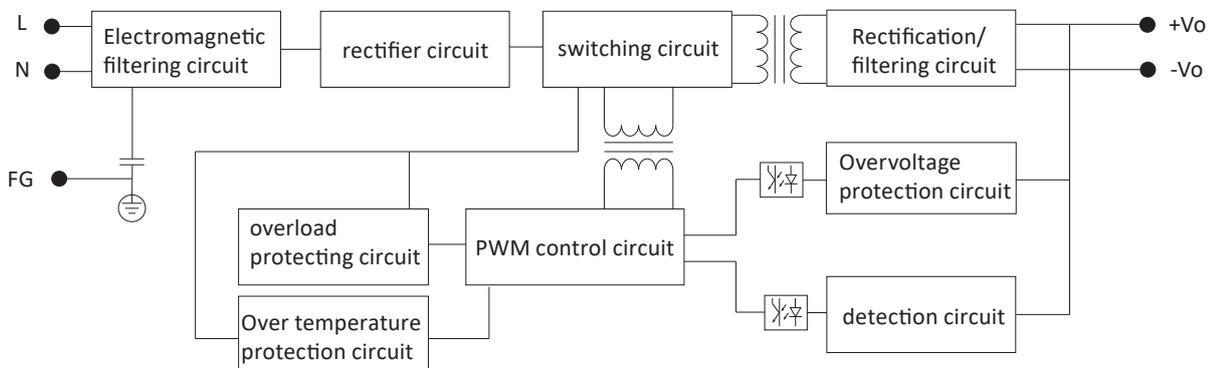
### Pin definition

Pin	definition
1	AC(L)
2	AC(N)
3	FG
4 5	Output -
6 7	Output +
A	0-10V+
B	0-10V+

Unit: mm[inth]

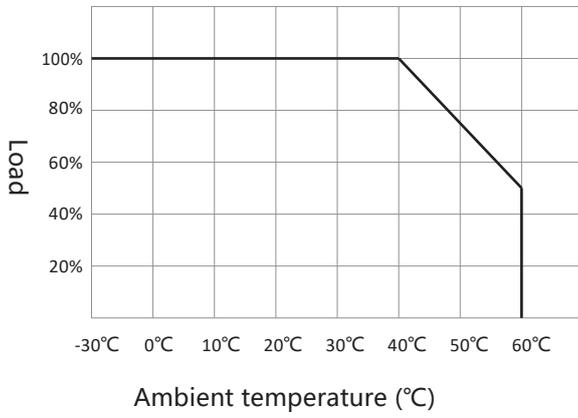


## PRODUCT FRAME DRAWING



DERATING CURVE

Temperature derating curve



Input voltage reduction curve

