



# Naskon

Power Conversion products





## Naskon's NKA1624xx Series Power Adaptors

Naskon's NKA1624xx Tabletop Power Adaptor Series are 24V AC-DC, single output switching mode power supply solutions designed with high frequency technology. It meets low ripple and noise for powering Water Purifier, GPON ONT and other equipments. High frequency switching technology along with appropriate thermal management makes this power supply highly reliable, cost effective, efficient and compact in size. These are designed to operate with wider AC Input range (100-300VAC), to withstand universal power conditions.

### Features:

- ✓ Compact size Tabletop Adaptor
- ✓ Robust design
- ✓ SMPS based design
- ✓ Natural convection cooled
- ✓ Visual indication for mains availability.
- ✓ Over 80% efficiency at typical loading in AC mode.

### Protections:

- ✓ Output Overload Protection: During over load, output folds back and resumes to normal operation after the removal of over load.
- ✓ Short Circuit Protection: During short circuit at output, the power supply protests and resumes normal operation on removal of short circuit.
- ✓ Input AC Over Voltage Protection: Adaptor shuts down at high input voltage (>300 Vac) and automatically recovers at normal voltage input (<300 Vac).
- ✓ Over temperature Protection: In case of over temperature the power supply shuts down and resumes to normal when the temperature reduces.

### Specifications

PARAMETER		NKA162415	NKA162425	NOTES AND CONDITIONS
INPUT	Operating Input Voltage	230 Vac	230 Vac	-
	Voltage Range	100-300 Vac	100-300 Vac	-
	Maximum Input Current	0.6 A	1.4 A	100% Load
	Operating Frequency	50 Hz	50 Hz	-
	Frequency Range	48-52 Hz	48-52 Hz	-
	Inrush Current	30 A	30 A	Cold start
OUTPUT	Voltage and Regulation	24 V	24 V	±5%
	Voltage Range	22.8-25.2 V	22.8-25.2 V	-
	Operating Output Current	1.5 A	2.5 A	-
	Ripple	Max: 240 mV	Max: 240 mV	Measured with 10 µF/35 Electrolytic cap and 0.1µF ceramic cap in parallel
	Noise	Max: 4 mV	Max: 4 mV	-
PROTECTION	Output power	36 W	60 W	-
	Output Overload	< 4.5 A	< 6.0 A	Folds back type, Automatic recovery after the removal of overload
	Input AC Over Voltage	-	-	"Adaptor Shuts down at >300 Vac Adaptor recovers at <300 Vac"
ENVIRONMENT	Short Circuit	-	-	Shutdown with automatic recovery (Hiccup mode)
	Operating Temperature	0-50 °C	0-50 °C	-
	Storage Temperature	0 - 70 °C	0 - 70 °C	-
	Operating Humidity	5-95 %RH	5-95 %RH	Non condensing
EFFICIENCY	Cooling	-	-	Natural Convention cooling
	100% Load	80%	80%	At input of 230Vac and 50Hz.
ISOLATION	Shorted Line and Neutral to Earth	3k Vac	3k Vac	-
	Ground Leakage Current	5 mA	5 mA	-
Safety, EMI & EMC	Safety	Designed to meet IEC 60950	Designed to meet IEC	-
	EMI / EMC	CISPR22/IEC61000	60950	-
GENERAL	DC JACK	"2.1/5.5, 2.5/5.5"	"2.1/5.5, 2.5/5.5"	-
	Adapter Type	Tabletop	Tabletop	-
	Input AC cable length	"2/3 Pin, 1.2 m / 1.5 m"	"2/3 Pin, 1.2 m / 1.5 m"	-
	Output DC cable length	1.5 m	1.5 m	-
	Dimensions	106X60X31mm	124x63x43 mm	-
	Weight	262 grams	380grms	-