



Naskon

Power Conversion products





Naskon 1612XX Series Power Adaptors:

NaskonSoft's 161200 Power Adaptor Series are 12V AC-DC, single output switching mode power supply solutions designed with high frequency technology. It meets low ripple and noise for powering telecom equipments. These are highly reliable, cost effective, efficient, compact in size and are designed to operate with wider AC Input range (90-300VAC), to withstand universal power conditions.

Features:

- ✓ Compact size and highly reliable.
- ✓ Robust design
- ✓ SMPS based design
- ✓ Natural convection cooled
- ✓ Mounting: Wall Mountable

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.
- ✓ Over temperature Protection : In case of over temperature the power supply shuts down and resumes to normal when the temperature reduces.

Technical Specifications

PARAMETER		NKA 161205	NKA 161210	NKA 161215	NKA 161220	NOTES AND CONDITIONS
INPUT	Operating Input Voltage	230 Vac	230 Vac	230 Vac	230 Vac	-
	Voltage Range	90-300 Vac	90-300 Vac	90-300 Vac	90-300 Vac	-
	Maximum Input Current	0.6 A	0.6 A	0.6 A	0.6 A	100% Load
	Operating Frequency	50 Hz	50 Hz	50 Hz	50 Hz	-
	Frequency Range	48-52 Hz	48-52 Hz	48-52 Hz	48-52 Hz	-
	Inrush Current	12 A	12 A	12 A	12 A	Cold start
OUTPUT	Voltage and Regulation	12 V	12 V	12 V	12 V	+12V (±5%)
	Voltage Range	11.4-12.6 V	11.4-12.6 V	11.4-12.6 V	11.4-12.6 V	
	Operating Output Current	0.5 A Max: 0.8 A	1A	1.5 A	2 A	
	Ripple	Max: 75 mV	Max: 75 mV	Max: 75 mV	Max: 75 mV	Measured with 10 µF/35 Electrolytic cap and 0.1µF ceramic cap in parallel
	Noise	Max: 2 mV	Max: 2 mV	Max: 2 mV	Max: 2 mV	-
	Output power	6 W	12 W	18 W	24 W	-
	Rise Time	8 ms	8 ms	8 ms	8 ms	At full load
	Hold up time	30 ms	30 ms	30 ms	30 ms	At full load
PROTECTION	Overload Protection	Max: 1 A	Max: 1.8 A	Max: 2 A	Max: 2.6 A	Folds back type, Automatic recovery after the removal of over-load
	Over Voltage	13.8 Vdc	13.8 Vdc	13.8 Vdc	13.8 Vdc	Latch Type
	Short Circuit	-	-	-	-	Shutdown with automatic recovery (Hiccup mode)
ENVIRONMENT	Operating Temperature	0-50 °C	0-50 °C	0-50 °C	0-50 °C	-
	Storage Temperature	0-70 °C	0-70 °C	0-70 °C	0-70 °C	-
	Operating Humidity	5-95 %RH	5-95 %RH	5-95 %RH	5-95 %RH	Non condensing
EFFICIENCY	100% Load	80%	80%	80%	80%	At input of 230Vac and 50Hz
ISOLATION	Shorted Line and Neutral to Earth	1.5k Vac	1.5k Vac	1.5k Vac	1.5k Vac	-
	Ground Leakage Current	3 mA	3 mA	3 mA	3 mA	-
Safety, EMI & EMC	Safety	Designed to meet IEC 60950				-
	EMI / EMC	CISPR22/IEC61000				-
GENERAL	Adapter Type	2/3 Pin Wall Mountable, With / without DC Cable				-
	Output DC cable	2.1/5.5 - 1.5m 2.5/5.5 - 1.5m Micro USB - Optional	2.1/5.5 - 1.5m 2.5/5.5 - 1.5m Micro USB - Optional	2.1/5.5 - 1.5m 2.5/5.5 - 1.5m Micro USB - Optional	2.1/5.5 - 1.5m 2.5/5.5 - 1.5m Micro USB - Optional	-
	DC JACK	2.1/5.5 2.5/5.5 Micro USB	2.1/5.5 2.5/5.5 Micro USB	2.1/5.5 2.5/5.5 Micro USB	2.1/5.5 2.5/5.5 Micro USB	-