



Naskon

Power Conversion products





Naskon's NKC161421 / NKC167515 Series Power Chargers

Naskon's NKC161421 / NKC167515 Charger have two outputs: one to feed the load and the other to charge battery. It meets low ripple and noise for powering FCT, CCTV, 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. All necessary visual indications for battery monitoring and mains availability are present in this unit. These are designed to operate with wider AC Input range (90-300VAC), to withstand universal power conditions.

Features:

- ✓ Compact size Tabletop / wall mountable charger.
- ✓ Robust design.
- ✓ SMPS based design.
- ✓ Over 80% efficiency at typical loading in AC mode.
- ✓ Natural convection cooled.
- ✓ Visual indications for battery charging, full charge and battery low.

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

Specifications

PARAMETER		NKC161321H	NOTES AND CONDITIONS
INPUT	Operating Input Voltage	230 Vac	-
	Voltage Range	90-300 Vac	-
	Maximum Input Current	1.0 A	100% Load
	Operating Frequency	50 Hz	-
	Frequency Range	48-52 Hz	-
	Inrush Current	20 A	Cold start
DC INPUT	Solar	17 V	-
	Voltage Range	11-22 V	-
OUTPUT	Voltage and Regulation	"13.5 V on Device side 13.5 V on Battery side"	-
	Voltage Range	13.35-13.65 V	-
	Operating Output Current	"0.75 A on Device side 1.4 A on Battery side"	Optional: Battery charging with 0.7A also available
	Ripple	Max: 75 mV	Measured with 10 µF/35 Electrolytic cap and 0.1µF ceramic cap in parallel
	Noise	Max: 2 mV	-
	Output power	30 W	-
	Rise Time	10 ms	At full load
	Hold up time	30 ms	At full load
ENVIRONMENT	Operating Temperature	0-50 °C	-
	Storage Temperature	-40 °C to 70 °C	-
	Operating Humidity	0-95 %RH	Non condensing
	Cooling	-	Natural Convection cooling
EFFICIENCY	100% Load	80%	At input of 230Vac and 50Hz
ISOLATION	"Shorted Line and Neutral to Earth"	1.5k Vac	-
	Ground Leakage Current	3 mA	-
Safety, EMI & EMC	Safety	Designed to meet IEC 60950	-
	EMI / EMC	CISPR22/IEC61000	-
GENERAL	DC JACK	"2.1/5.5, 2.5/5.5"	-
	Adapter Type	Tabletop / Wallmountable	-
	Output DC cable length	1.8 m	-
	Dimensions	175x135x110 mm	-
	Weight	3500 grams	Includes 7AH battery