KOLSAII



KOLSAT GP - Hybrid Inverter

1000W with Controller System (UPS Function)



Product: NK-GP1000

Product Size: 355mm×175mm×210mm

Shell Material: Iron

Color: Blue+cream-Coloured

Product N.W.: 12kg

Packing size: 400mm×220mm×285mm

QTY/CTN: 1PCS

G.W./CTN: 12.75kg

N.W. Of 30A solar controller: 1.05Kg

Technical Specification:

Input Features:

DC voltage range: DC20V-DC31V
Over voltage protection: DC32±1V
Over voltage recovery: DC30±0.5V
Low voltage protection: DC20±1V
Low voltage recovery:DC25±0.5V
AC input voltage:AC145±5V-AC275±5V

AC frequency: Automatically tracking and adaptive

Output Features:

AC voltage in AC mode: 220V±10% (AVR function) Frequency in AC mode: 50Hz±5Hz/60Hz±5Hz

AC voltage in inverter mode: 220V±10% Frequency in inverter mode: 50Hz±0.5Hz

Output waveform: Purs sine wave

Waveform distortion: ≤5%

Switch time: 4ms No-load loss:≤10W Rated power: 1000W

Peak power: 3 times of rated power for 1 second

Transfer efficiency: >85%

NK-GP1000

Charging Features

Battery type: Maintenance free lead-acid battery

Battery Voltage:24V DC Charging current:15A

Charing time: 8h ≥90% (80A maintenance free lead-acid battery)

Floating charge voltage: 27.6VDC±0.3V

Over-charge voltage: 28.2V

AC input voltage: 145VAC±5V-275VAC±5V

Protection Features

DC low voltage protection: DC20±1V DC over voltage protection: DC32±1V

Over-heat protection: 90±10°C

AC input low voltage protection: 145VAC±5V AC input over voltage protection: 275VAC±5V

Short-circuit protection: Flashing and shut down after 1S. Over-load protection:120% of rated power, restart after 30S

150% of rated power, shut down after 10S 200% of rated power, shut down after 1S

Features of Solar Controller

Solar panel input range: DC30V-DC50V The rated voltage of solar input: DC36V Rated power of solar solar input: 1080W

Floating charge voltage: 27.6V

Charging current: 30A Charge efficiency:>96%

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KOLSAT GP - Hybrid Inverter 2000W with Controller System (UPS Function)



Technical Parameters

Input Features:

DC voltage range: DC40V-DC62V Over voltage protection: DC62±2V Over voltage recovery: DC59±1V Low voltage protection: DC40±2V Low voltage recovery:DC50±2V

AC input voltage: AC145±5V- AC275±5V

AC frequency: Automatically tracking and adaptive

Output Features:

AC voltage in AC mode: 220V±10% (AVR function)

Frequency in AC mode: 50Hz±5Hz/60Hz±5Hz AC voltage in inverter mode: 220V±10% Frequency in inverter mode: 50Hz±0.5Hz

Output waveform: Purs sine wave

Waveform distortion: ≤5%

Switch time: 4ms No-load loss:≤40W Rated power: 2000W

Peak power: 3 times of rated power for 1 second

Transfer efficiency: >85%

NK-GP2000

■Product Data: NK-GP2000

Product Size: 490mm×235mm×420mm

Max. Product size: 490mm×235mm×485mm

(including wheels)
Shell Material: Iron

Color: Cream-Coloured

Product N.W: 27.4kg (with controller)
Packing size: 585mm×355mm×630mm

QTY/CTN: 1PCS G.W./CTN: 38kgs

N.W. Of 50A solar controller: 1.45Kg

Charging Features

Battery type: Maintenance free lead-acid battery

Battery Voltage:48V DC Charging current:15A

Charing time: 8h ≥90% (80A maintenance free lead-acid battery)

Floating charge voltage: 55.2 VDC±0.8V

Over-charge voltage: 56.4V

AC input voltage: 145VAC±5V-275VAC±5V

Protection Features

DC low voltage protection: DC40±2V DC over voltage protection: DC62±2V

Over-heat protection: 90±10℃

AC input low voltage protection: 145VAC±5V AC input over voltage protection: 275VAC±5V

Short-circuit protection: Flashing and shut down after 1S. Over-load protection:120% of rated power, restart after 30S

150% of rated power, shut down after 10S 200% of rated power, shut down after 1S

• Features of Solar Controller

Solar panel input range: DC60V-DC100V The rated voltage of solar input: DC72V Rated power of solar solar input: 3600W

Floating charge voltage: 58V

Charging current: 50A Charge efficiency:>96%

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KOLSAT GP - Hybrid Inverter 3000W with Controller System (UPS Function)



Technical Parameters

Input Features:

DC voltage range: DC40V-DC62V

Over voltage protection: DC62±2V

Over voltage recovery: DC59±1V

Low voltage protection: DC40±2V

Low voltage recovery:DC50±2V

AC input voltage:AC145±5V-AC275±5V

AC frequency: Automatically tracking and adaptive

Output Features:

AC voltage in AC mode: 220V±10% (AVR function) Frequency in AC mode: 50Hz±5Hz/60Hz±5Hz

AC voltage in inverter mode: 220V±10%
Frequency in inverter mode: 50Hz±0.5Hz

Output waveform: Purs sine wave

Waveform distortion: ≤5%

Switch time: 4ms No-load loss:≤50W Rated power: 3000W

Peak power: 3 times of rated power for 1 second

Transfer efficiency: >85%

NK-GP3000

■Product Data: NK-GP3000

Product Size: 490mm×235mm×420mm

Max. Product size: 490mm×235mm×485mm

(including wheels)
Shell Material: Iron

Color: Cream-Coloured

Product N.W: 42.6kg (with controller)
Packing size: 585mm×355mm×630mm

QTY/CTN: 1PCS G.W./CTN: 53.2kgs

Charging Features

Battery type: Maintenance free lead-acid battery

Battery Voltage:48V DC Charging current:15A

Charing time: 8h ≥90% (80A maintenance free lead-acid battery)

Floating charge voltage: 55.2 VDC±0.8V

Over-charge voltage: 56.4V

AC input voltage: 145VAC±5V-275VAC±5V

Protection Features

DC low voltage protection: DC40±2V DC over voltage protection: DC62±2V

Over-heat protection: 90±10°C

AC input low voltage protection: 145VAC±5V AC input over voltage protection: 275VAC±5V

Short-circuit protection: Flashing and shut down after 1S. Over-load protection:120% of rated power, restart after 30S

150% of rated power, shut down after 10S 200% of rated power, shut down after 1S

Features of Solar Controller

Solar panel input range: DC60V-DC100V The rated voltage of solar input: DC72V Rated power of solar solar input: 4320W

Floating charge voltage: 58V

Charging current: 60A Charge efficiency:>96%



KOLSAT GP - Hybrid Inverter 5000W with Controller System

(UPS Function)



■Product Data: NK-GP5000

Product Size: 550mm×260mm×480mm Max. Product size: 550mm×260mm×535mm

(including wheels) **Shell Material: Iron**

Color: **Cream-Coloured**

Product N.W: 65kg (with controller) Packing size: 630mm×345mm×680mm

QTY/CTN: 1PC G.W./CTN: 75kgs

N.W. Of 60A solar controller: 1.45Kg

Technical Parameters

Input Features:

DC voltage range: DC80V-DC128V Over voltage protection: DC128±4V Over voltage recovery: DC122±2V Low voltage protection: DC80±4V Low voltage recovery:DC102±2V

AC input voltage: AC145±5V- AC275±5V

AC frequency: Automatically tracking and adaptive

Output Features:

AC voltage in AC mode: Same as AC input voltage Frequency in AC mode: 50Hz±5Hz/60Hz±5Hz AC voltage in inverter mode: 220V±10% Frequency in inverter mode: 50Hz±0.5Hz

Output waveform: Purs sine wave

Waveform distortion: ≤5%

Switch time: 4ms No-load loss:≤100W Rated power: 6000W

Peak power: 3 times of rated power for 1 second

Transfer efficiency: >85%

NK-GP5000

Charging Features

Battery type: Maintenance free lead-acid battery

Battery Voltage: 9V DC Charging current: 15A

Charing time: 8h ≥90% (80A maintenance free lead-acid battery)

Floating charge voltage: 110.4 VDC±1.6V

Over-charge voltage: 112.4V

AC input voltage: 145VAC±5V-275VAC±5V

Protection Features

DC low voltage protection: DC80±4V DC over voltage protection: DC128±4V

Over-heat protection: 90±10°C

AC input low voltage protection: 145VAC±5V AC input over voltage protection: 275VAC±5V

Short-circuit protection: Flashing and shut down after 1S. Over-load protection:120% of rated power, restart after 30S

150% of rated power, shut down after 10S 200% of rated power, shut down after 1S

Features of Solar Controller

Solar panel input range: DC90V-DC144V The rated voltage of solar input: DC144V Rated power of solar solar input: 8640W

Floating charge voltage: 116V

Charging current: 60A Charge efficiency:>96%

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KOLSAT GP - Hybrid Inverter 6000W with Controller System (UPS Function)



Technical Parameters

Input Features:

DC voltage range: DC80V-DC128V
Over voltage protection: DC128±4V
Over voltage recovery: DC122±2V
Low voltage protection: DC80±4V
Low voltage recovery:DC102±2V

AC input voltage:AC145±5V- AC275±5V

AC frequency: Automatically tracking and adaptive

Output Features:

AC voltage in AC mode: Same as AC input voltage Frequency in AC mode: 50Hz±5Hz/60Hz±5Hz AC voltage in inverter mode: 220V±10% Frequency in inverter mode: 50Hz±0.5Hz

Output waveform: Purs sine wave

Waveform distortion: ≤5%

Switch time: 4ms No-load loss:≤100W Rated power: 6000W

Peak power: 3 times of rated power for 1 second

Transfer efficiency: >85%

NK-GP6000

■Product Data: NK-GP6000

Product Size: 550mm×260mm×480mm

Max. Product size: 550mm×260mm×535mm

(including wheels)
Shell Material: Iron

Color: Cream-Coloured

Product N.W: 65kg (with controller)
Packing size: 630mm×345mm×680mm

QTY/CTN: 1PC G.W./CTN: 75kgs

N.W. Of 60A solar controller: 1.45Kg

Charging Features

Battery type: Maintenance free lead-acid battery

Battery Voltage: 9V DC Charging current:15A

Charing time: 8h ≥90% (80A maintenance free lead-acid battery)

Floating charge voltage:110.4 VDC±1.6V

Over-charge voltage: 112.4V

AC input voltage: 145VAC±5V-275VAC±5V

• Protection Features

DC low voltage protection: DC80±4V DC over voltage protection: DC128±4V

Over-heat protection: 90±10℃

AC input low voltage protection: 145VAC±5V AC input over voltage protection: 275VAC±5V

Short-circuit protection: Flashing and shut down after 1S. Over-load protection:120% of rated power, restart after 30S

150% of rated power, shut down after 10S 200% of rated power, shut down after 1S

Features of Solar Controller

Solar panel input range: DC90V-DC144V The rated voltage of solar input: DC144V Rated power of solar solar input: 8640W

Floating charge voltage: 116V

Charging current: 60A Charge efficiency:>96%