

blueplanet 360 NX3 M6

First high-performance inverter
from a German supplier
for large PV parks with 800VAC





Efficient. Safe.

Portfolio Utility blueplanet 360 NX3 M 6

- High performance: up to 363 kW
- High Siemens Cyber Security standards
- Secure communication through German monitoring partners
- Late derating



Technische Highlights.



Powerful

Up to 363 kW at 100 % U_{nom}
326.7 kW at 90 % U_{nom} according to VDE 4110



Late Derating

Best in class AC current with 262 A for late derating



Cyber-Secure

Tested security in accordance with Siemens AG cyber security processes
meteocontrol as an established German monitoring partner



Unique

High-performance utility inverters from a German manufacturer from KACO new energy



Efficient

99.01 % maximum efficiency:
More yield for your project

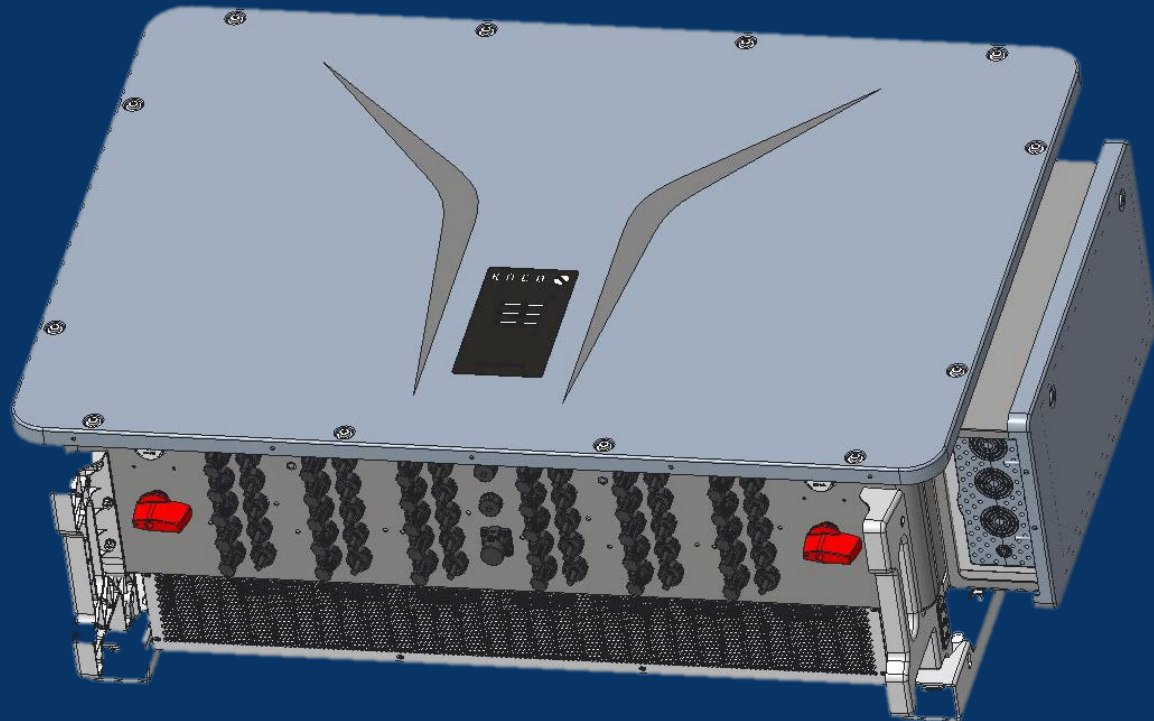
Target Technical Data.

DC Input data		360 NX3
Max. recommended PV generator power		544 000 W
MPP range		860 – 1300 V
Operating range		500 – 1500 V
Rated DC voltage / start voltage		1080 V / 550 V
Max. no-load voltage		1500 V
Max. input current		6 * 75 A
Max. short circuit current I _{sc} MAX		6 * 113 A
Number of MPP trackers		6
Connection per tracker		5/5/5/5/5/5
AC output data		
Rated output		363 000 VA @30 °C / 333 000 VA @40 °C / 326 700 VA @90% U _{NOM} according to AR-N-VDE 4110
Max. power		363 000 VA
Line voltage		800 V (3P + PE)
Voltage range (Ph-Ph)		640 – 920 V
Rated frequency (range)		50 Hz / 60 Hz
Rated current		262 A
Max. current		262 A
Reactive power / cos phi		0.80 ind. – 0.80 cap.
Max. total harmonic distortion (THD)		< 3 %
Number of grid phases		3

Target Data Sheet.

General data	
Max. efficiency	99.01 %
Europ. efficiency	98.52 %
Standby consumption	< 6 W (night)
Circuitry topology	transformerless
Anti-PID	yes ●
Tracker interface	yes ●
Q at night	yes ●
DC surge protection Type II	yes ●
AC Surge protection Type II	yes ●
Anti-island protection	yes ●
AC overcurrent protection	yes ●
DC reverse connection protection	yes ●
AC short circuit protection	yes ●
PV string monitoring	yes ●
Grid monitoring	yes ●
Residual Current Monitoring Unit	yes ●
Mechanical data	
Display	LED
Control units	mobile devices (App)
Interfaces	RS485, K-Bus, Bluetooth, 1 x USB
DC connection	plug in connector
AC connection	OT/DT connector
Ambient temperature	-30 °C - +60 °C
Humidity	100 %
Max. installation elevation (above MSL)	4 000 m
Climatic category (according to IEC 60721-3-4)	4K4H
Cooling	forced air
Protection class	IP66
Noise emission	71 db (A)
H x W x D	780 mm x 1080 mm x 385 mm
Weight	≤ 117 kg
Certifications	
Safety & Grid	CE, IEC622109-1/2, IEC61727, IEC61683, 50549-10 / EN 50549-2 inc. A1:2023 / AR-N-VDE 4110 / AR-N-VDE 4120 / TOR Erzeuger B - D Version 1.3:2024 / NA/EEA-NE3-5 - CH 2022 / EN 50549-2 & EN 50540-10 french deviation / more information see homepage / download area

Outer Connecting area of inverter..



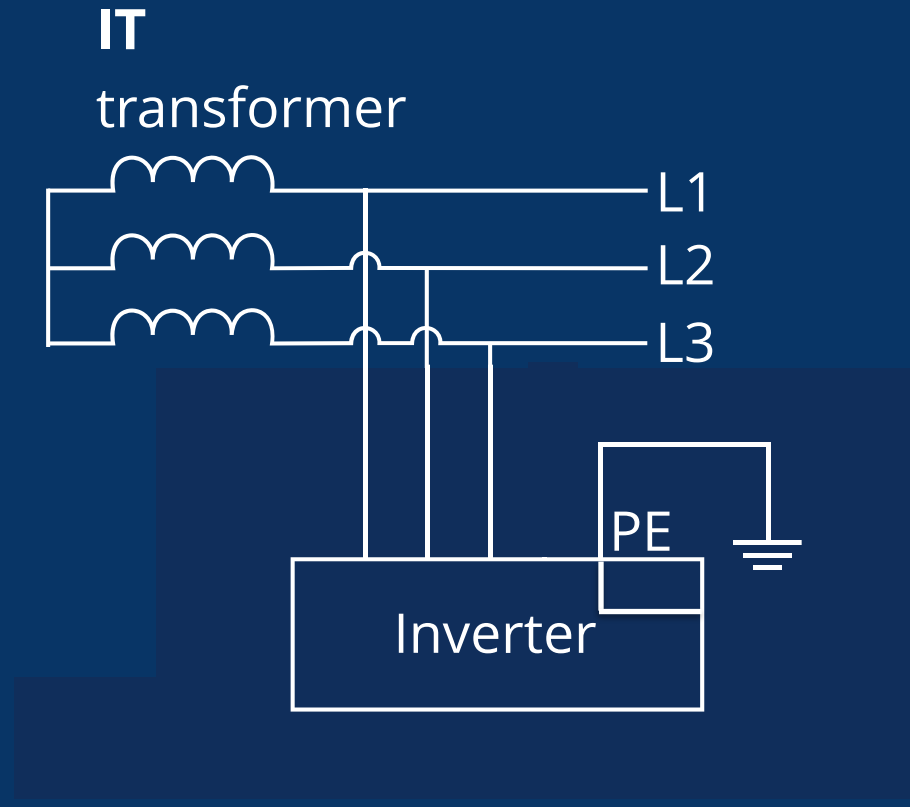
DC Connections

- Amphenol plug for DC cable 4-6mm²

AC Connections

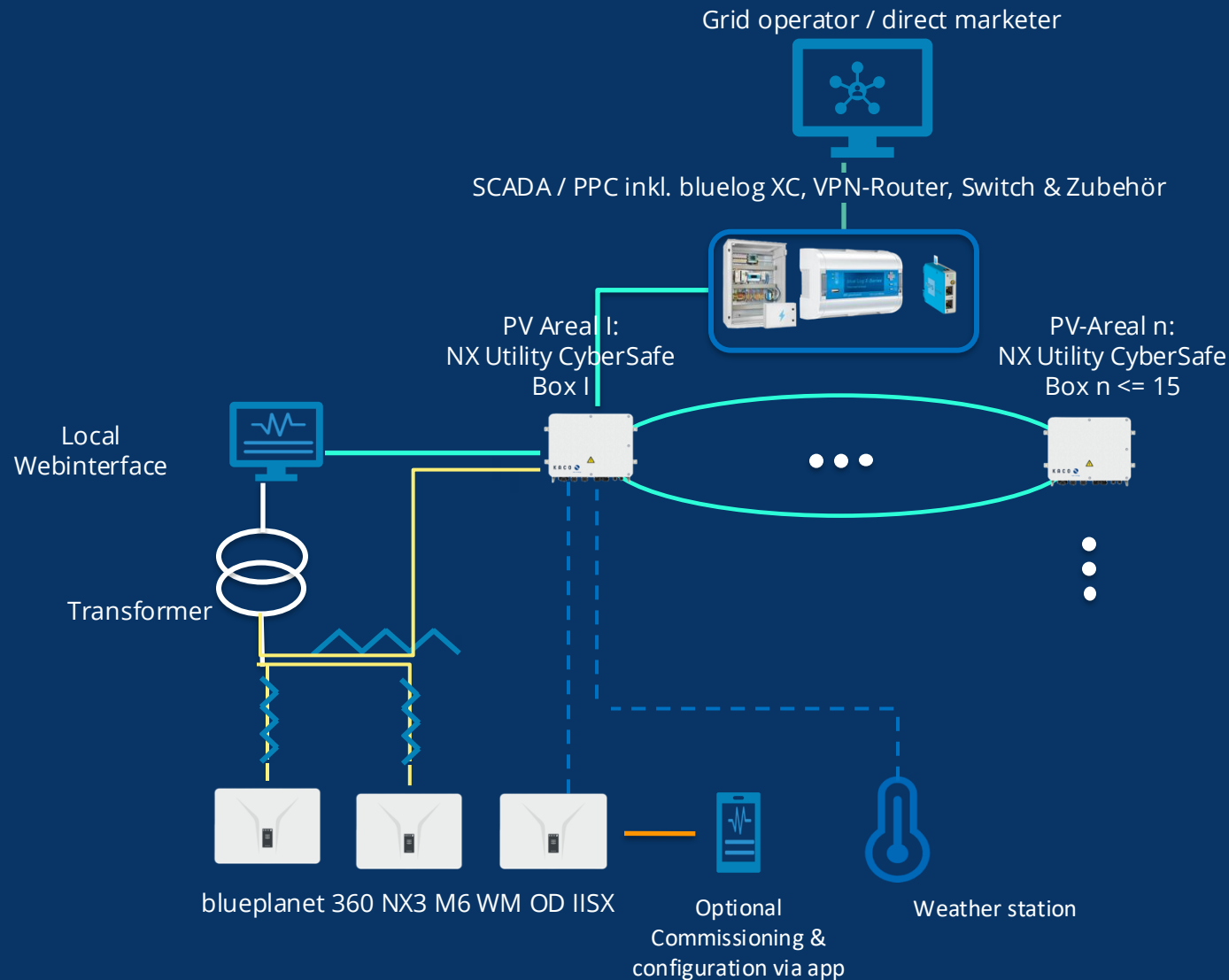
- Two connections per phase possible
- Single-core & multi-core
- Copper cable with 120 - 185 mm²
- Aluminum cable with 150-500 mm²
- Recommended cross-section of the PE cable:
≥1/2 of a phase

Netzformen.








Operation is exclusively on the IT network.

Communication.



Device	Further information
bluelog XC Accessories	<ul style="list-style-type: none"> • Measurement technology, e.g. PQ plus UMD 96EL 24V DC Energy analyzer • Industrial router, e.g. insys MIRO • VPN license • Switch • Optional: VCOM license, direct marketing license
NX Utility CyberSafe Box	<ul style="list-style-type: none"> • Including K-Bus, 6 xRS485, 4 x LAN, 2x fiber optics, more • Up to 15 x NX Utility CyberSafe boxes via fiber optic & master-slave method • Fiber optic adapter between different NX Utility CyberSafe boxes & to VPN routers • Via RS485 up to 180 devices per box • Via K-Bus up to 80 x inverters per box • Connection of weather stations • Local web server via LAN

-  K-Bus
-  RS485
-  AC Wiring
-  Data connection, z.B. LAN / LWL
-  Bluetooth connection

Accessories.

Scada / PPC: Maximum Cyber-Security



- ✓ Data streams are controlled by the blue'Log XC
- ✓ Data traffic exclusively within Europe on European servers
- ✓ European cloud providers

Included in

the scope of delivery:

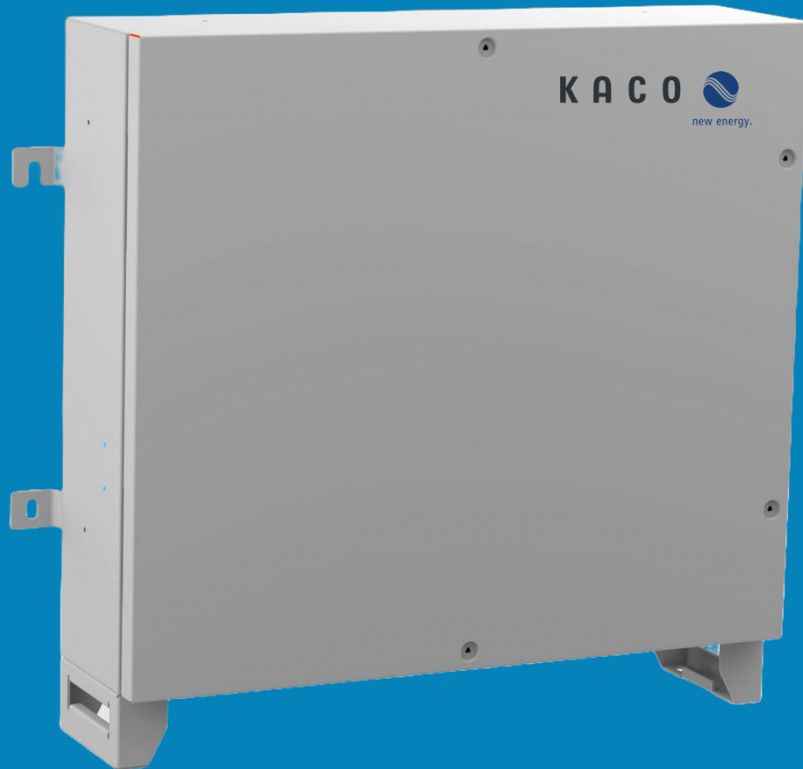
- blue'log XC
- Grid analyzer
- VPN-Router & Switch

On request:

- 2-year VCOM license
- Commissioning support
- Integration of sensors
- Integration of grid operators
- Integration of direct marketers
- Investor overview
- Extension for energy storage

Accessories.

NX Utility CyberSafe Box



- The NX Utility CyberSafe Box is your key to effective communication in your PV park
- Item number 1002301
- NX Utility AI Manager, K-Bus communication, 2 x Anti-PID, SPD's, RS485 ports, fuses & more
- Up to 15 KACO NX Utility CyberSafe Boxes can be interconnected via fiber optic cables
- Fiber optic adapter for secure communication between NX Utility CyberSafe Boxes & between VPN router & NX Utility CyberSafe Box

Accessories.

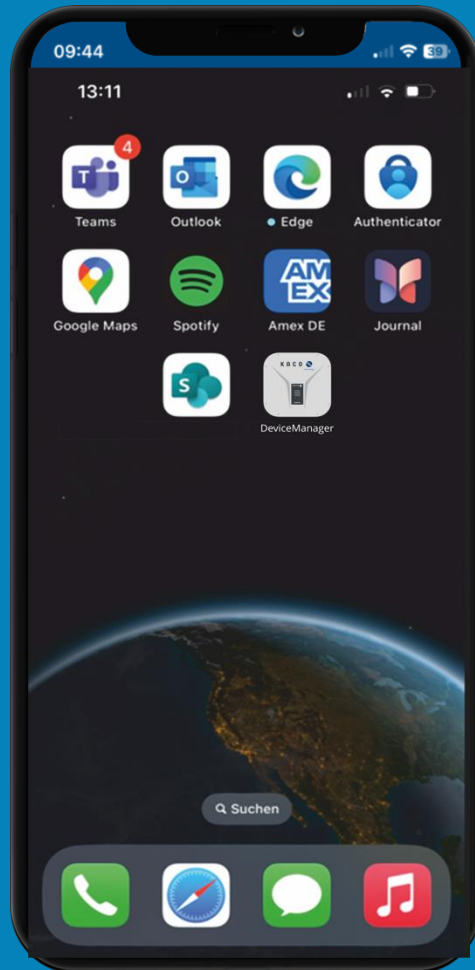
NX Utility AI Manager

- KACO NX Utility AI Manager for controlling, monitoring and commissioning the blueplanet 360 NX3 M6
- K-bus communication, RS485
- Control of the anti-PID function
- 2 x WNA + 4 x LAN + fiber optic communication
- 6 × RS485
- 4 × digital inputs
- 4 × analog inputs
- Further



Accessories.

KACO Commissioning App & NX Utility CyberSafe Box Webserver



- Simultaneous commissioning of several blueplanet 360 NX3 M6 via web server
- Commissioning of individual blueplanet 360 NX3 M6 via Bluetooth app



THANK YOU FOR **YOUR ATTENTION.**

KACO new energy GmbH
A Siemens Company
Werner-von-Siemens-Allee 1
D-74172 Neckarsulm
Kaco-newenergy.com