

## „TECHNOLOGY FOR A SUSTAINABLE WORLD” - TENKA POWER – A STRONG PART OF THE TENKA SOLAR GROUP.

Tenka Power is a European subsidiary of the globally operating Tenka Solar Group. As part of an internationally successful group of companies, we benefit from the decades of experience, extensive resources and innovative technologies of our parent company. The Tenka Solar Group is one of the leading manufacturers and suppliers in the photovoltaic sector and stands for outstanding quality, high production capacities and comprehensive customer support.

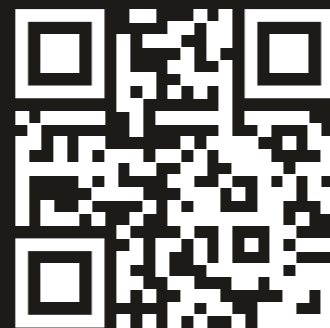
As the European subsidiary of the Tenka Solar family, we bring local expertise, a deep understanding of the requirements of the European market and a strong focus on sustainable, cost-effective solutions. In this way, we ensure that our customers benefit from the latest trends and developments in the field of renewable energies. Thanks to the intensive exchange between the locations and teams of the Tenka Solar Group, we can draw on a wide range of experience and best practices.

This strong international presence enables us to meet individual customer needs, comply with global standards and at the same time develop customised solutions for regional conditions. With Tenka Power as part of the Tenka Solar Group, you have a strong partner that combines European expertise with global innovation- for a sustainable and future-proof energy supply. Translated with DeepL.com (free version)

### TENKA Power GmbH

Bahnhofstrasse 36  
A 4802 Ebensee

Tel.: +43 720 531 135  
Mail: [office@tenkapower.com](mailto:office@tenkapower.com)  
Web: [www.tenkapower.com](http://www.tenkapower.com)





# Tenka Power **Ecosystem**

All from a **single source!**

## Mission

The Tenka Ecosystem offers a harmonious blend of efficiency and innovation, tailored to meet customer needs. Its integrated approach ensures seamless compatibility across all components, from solar panels to energy storage. This synergy not only simplifies installation and maintenance but also optimizes energy production and usage. Customers benefit from a streamlined, high-performance system that maximizes renewable energy utilization, reducing both costs and environmental impact.

# TENKA



# Solutions

01

**Solution Value**

02

**Residential Solutions**

03

**Commercial Solutions**

04

**Utility Scale Solutions**

05

**Product Overview**

# The Ecosystem

## Residential Scenario

01

Explore Explore Tenka Power's advanced solutions for residential PV systems. Our high-efficiency inverters, designed for reliability and maximum performance. The seamless combination of high-performance modules with inverter, PV battery, heat pump and AC EV Charger makes the Tenka Power Ecosystem ideal for home solar setups. Benefit from the user-friendly Tenka Power Cloud app to monitor your complete PV system.

## Farmers and Farms

02

Tenka Power specializes in providing robust solar solutions for farmers and agricultural applications. Tenka Power inverters are Ip66 rated- ideal for indoor and outdoor use. Our hybrid inverters offer 3-phase emergency power and can be connected to a PV battery. With advanced technology, easy installation, and efficient energy management, Tenka Power supports sustainable and cost effective energy production.

## Agricultural Scenario

03

Tenka Power delivers optimized solar solutions for agricultural PV scenarios. Our products are tailored for farm energy requirements, offering durable, high-efficiency inverters with easy nstallation. Equipped with advanced monitoring and robust design, Tenka Power ensures reliable, sustainable energy Production for diverse Agri PV scenarios.

## Commercial Scenario

04

Tenka Power excels in commercial PV scenarios, offering high-performance inverters suitable for various business needs. Our solutions ensure maximum energy efficiency, durability, and user-friendly operation. Tenka Power hybrid inverters offer advanced technologies like 3-phase emergency power, peak load shaving and can be connected plug & play to a PV battery. Ideal for Smart Energy integration

## Industrial Scenario

05

Tenka Power is ideal for industrial PV scenarios, providing powerful, reliable inverters designed for industrial needs. Our products ensure peak efficiency, durability, and easy integration. With cutting-edge technology, Tenka Power enables industrial facilities to achieve sustainable, high performance energy solutions.

## Utility Scale Scenario

06

Tenka Power caters to utility-scale PV scenarios with robust, high-capacity inverters engineered for large-scale energy production. Our solutions offer unparalleled efficiency, advanced technology, and top reliable performance, ideal for utility applications. Tenka Power enables large-scale renewable energy projects to maximize output and sustainability.



# Tenka Power Ecosystem

## All from a single source!

Tenka Solarmodules  
Tenka Orion III Ultra 485W

Tenka Power Inverter  
Tenka Power Center 3000 5-12kW





Tenka Power PV-Battery  
Tenka Power Storage 7,5-20kWh

Tenka Power EV-Charger  
Tenka Power Charger 7,4-22kW

Tenka Power Heatpump  
Tenka Power Heat 6-18kW

Tenka Power Cloud App

### Tenka Power Inverters

-  Tenka Power Center 1000 PRO (1-phasig)
-  Tenka Power Center 1000 MAX (1-phasig)
-  Tenka Power Center 3000 PRO (3-phasig)
-  Tenka Power Center 3000 MAX (3-phasig)

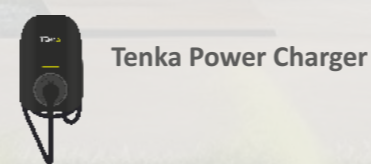
### Tenka Power PV battery



### Tenka Power Heating



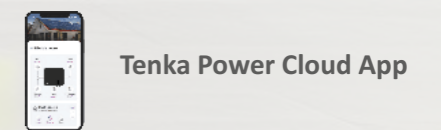
### Tenka Power Charging



### Tenka Solar Panels



### Tenka Power Monitoring



# 3-Phase emergency power protects against blackout

## EPS and UPS integrated

Experience uninterrupted power and peace of mind with our state-of-the-art photovoltaic emergency power solution. This innovative system is equipped with a 3-phase uninterruptible power supply, meticulously engineered to keep your essential appliances operational during power outages. Featuring continuous and dependable power supply.

Experience unparalleled comfort and outstanding reliability with our advanced emergency power system. This system delivers a consistent 3-phase emergency power supply, ensuring your critical heavy loads, such as motors and water pumps, stay active. It offers a powerful 200% rated capacity for up to 10 seconds, ideal for handling significant power demands. Our system facilitates a smooth transition during power outages with an ultra-fast UPS-level switch me of less than 10 milliseconds, ensuring uninterrupted power flow.

Designed for easy scalability, our system allows for straight-forward expansion of battery storage and inverters as needed. The 3-phase output eliminates expensive modifications to distribution panels, and an integrated switch in the inverter enhances usability. Customize your power requirements with a range of inverters, from 5 to 30 kW, and versatile battery storage options from 7.5 kWh to an impressive 80kWh per inverter, providing a tailored solution to meet your energy needs. Ensure your peace of mind with our adaptable and efficient energy system.

- **Guaranteed Performance for Heavy Loads:** Our system reliably provides 200% rated power capacity for a crucial 10 seconds, making it ideal for efficiently operating motors and water pumps.
- **Ultra-Fast Switching for Uninterrupted Power:** With a UPS-level transition me of under 10 milliseconds, our system ensures stable power supply during grid outages.
- **Simple Integration:** Designed for ease of integration, our system eliminates the need for costly distribution panel modifications, simplifying installation and reducing costs.
- **Tailored and Expandable Energy Solutions:** We offer a range of flexible hybrid inverters with backup power capabilities ranging from 5 to 30 kW and battery energy storage solutions up to 80 kWh, allowing you to customize and scale your energy solution to meet your specific needs.



# Active safety

# with Tenka Power

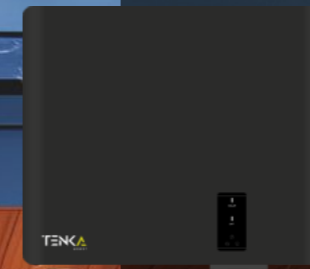
# solutions

Our PV systems are engineered with this principle at the forefront, incorporating state-of-the-art safety features that protect both the system and the owner's home. Central to our design is the safe inverter technology, which includes continuous automatic fault current monitoring and AFCI function to securely detect arc faults.

All integrated safety functions ensure that any system abnormalities are swiftly detected and addressed. Before daily operation, our inverters perform a thorough insulation check of the PV generator, enhancing overall safety. Additionally, our commitment to lean system design, which eliminates the need of complex MLPE (Module Level Power Electronics), further enhances system safety, making our PV solutions not only efficient but also exceptionally secure. All our products are tested and certified by internationally recognized certification laboratories.



**Tenka Power Guard 2-2**  
SPD Type I+II Protection against lightning strikes



## Next level safety for your PV system

Our PV systems embody the highest standards of safety, featuring advanced inverter technology with integrated arc fault detection and automatic insulation checks, all within a lean and efficient system design for enhanced security and reliability.

### Tenka Power Inverters

- Integrated arc fault circuit interrupter- accurate arc fault detection via neural network algorithm. Rapid inverter shut down for secure arc fault detection.
- Continuous Fault Monitoring for Immediate Response- automatic fault current monitoring safeguards operations by instantly detecting and responding to abnormal conditions.
- Daily Insulation Checks- every morning the inverter performs an automated insulation check, ensuring the integrity and operational safety of the system.
- Safe Inverter Disconnection Mechanism- in the event of a fault, our inverters safely disconnect from solar modules, preventing electrical hazards.
- Lean Design Minimizes Safety Risks- our lean system design, eliminates complex MLPE, significantly reducing safety risks, ensuring maximum system safety.

### Tenka Power PV Battery

- Cell level protection (LFP from top suppliers, Cell level management)
- Electrical protection (Overcharging, over current over temperature protection, External short - circuit protection)
- Structural protection (High-strength and high-melting cabinet, IP66 class level protection)

# Tenka Power

## heat for Heating

## and Cooling

Experience the revolution in home climate control with our electric heat pumps powered with free solar energy from your PV system. Our solution offers a sustainable and cost-effective way for your home's heating and cooling needs. By harnessing solar energy, the system significantly reduces reliance on traditional power sources, leading to lower energy bills and a reduced carbon footprint.

Our innovative system not only ensures eco-friendly operation but also provides consistent comfort throughout the year. The heat pump efficiently utilizes solar-generated electricity, optimizing energy use and enhancing self-sufficiency. This seamless integration of renewable energy with advanced climate control technology represents a significant step towards a greener, more sustainable future.

*Coming Soon*



Transform winter warmth with our heat pump, an efficient heating solution powered by free solar energy from our PV system. This approach significantly cuts heating costs and reliance on conventional energy sources.

The heat pump efficiently converts solar power into heat, providing a cozy and sustainable home environment during winter, an economical and cost-saving choice for your heating needs.



Utilize our heat pump as an air conditioner during summer for efficient and cost-effective cooling. Powered by free green energy from your solar system, it offers an eco-friendly solution compared to traditional air conditioning.

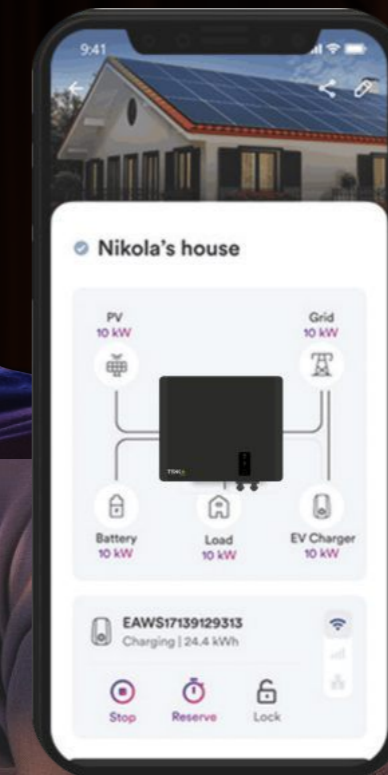
Tenka Power Heat not only cuts your electricity bill, but also reduces your carbon footprint, creating a comfortable, cool environment in your home.



# Cloud based monitoring anytime, anywhere!

Experience the simplicity of Tenka Power user-friendly 24/7 PV system monitoring solution - anytime, anywhere, at no costs. Available as App for iOS and Android devices and browser based Tenka Power Cloud Portal. Our smart O&M ensures your system operates at peak efficiency with minimal effort.

Easy integration into your Home Energy Management Systems with a variety of communication interfaces, including WIFI, Ethernet, and RS485. The Tenka Power Cloud App unifies control over all products, from inverters to AC EV chargers and heat pumps.



## Overall control

- User-friendly, easy to use, easy to navigate
- 24/7 PV System Monitoring
- System commissioning with App
- Included, no additional costs
- iOS and Android version available
- Bi-directional communication
- Simple and Smart O&M



## Full Transparency of you PV Project

- A variety of communication interfaces; WIFI, Ethernet, RS485 for integration into Home Energy Management Systems
- One app for all products (Inverters, Energy storage batteries, AC EV-Chargers, Heat-Pumps, etc.)
- Easy to use reporting management
- Full transparency of energy production and consumption

# Tenka power ecosystem for residential scenarios



01 Tenka PV-Panels



02 Tenka Power Center



03 Tenka Power Charger



04 Tenka Power Storage



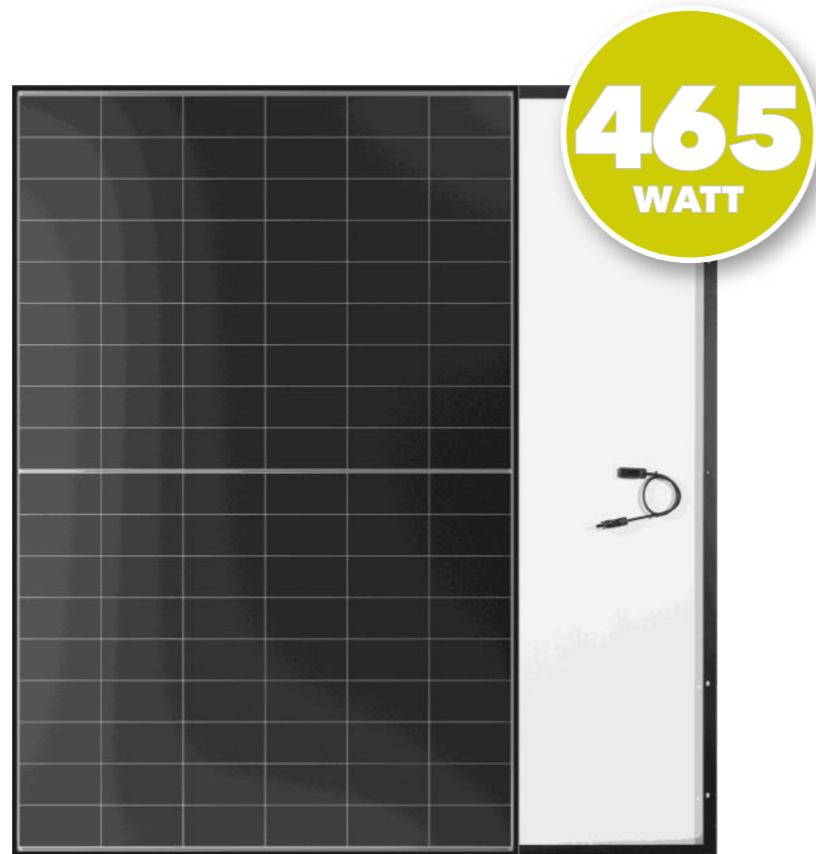
05 Tenka Power Heat



06 Tenka Power Cloud

*Coming Soon*

## Tenka Orion III Plus



## Orion - the entry into the premium segment

Our entry into the premium segment. Tenka Solar Orion III Plus solar modules set new standards in solar power generation thanks to N-Type TOPCon technology, a peak output of up to 465 watts and a module efficiency of 23.27 %. They enable cost savings of up to 15 % for installation, substructure and labour. Thanks to their high resistance to extreme weather conditions and a guaranteed output of 87.4 % after 30 years, they ensure long-lasting, constant energy production. Available in full black, black frame or bi-facial glass-glass versions, the Tenka Orion III Plus modules are ideal for use in residential PV projects.



### Top performance

The Orion III Plus solar modules increase the efficiency of any PV system thanks to the patented Nanotech technology. Tenka Solar modules offer an impressive output of 465 watts and a module efficiency of 23.27%. This maximises solar power production and optimises energy yield, making this PV module the ideal choice



### High yield reliability

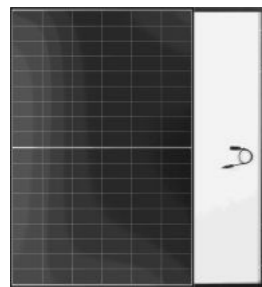
Thanks to their robust design, the modules can withstand extreme weather conditions and mechanical loads. A low temperature coefficient of just -0.29%/°C ensures improved performance at high temperatures. 30-year product guarantee and 30-year performance guarantee ensure long-term investment security



### For all applications

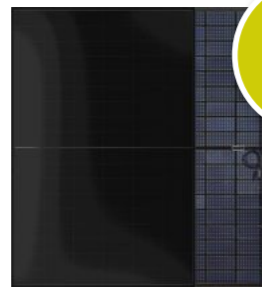
Orion III Plus modules are also available in a bi-facial version in addition to Black Frame. The bi-facial modules utilise the rear side for additional energy generation, increasing overall performance and efficiency. This flexibility enables adaptation to different installation requirements and maximises yield

## Tenka Orion III Plus - Overview



### Tenka Solar Orion III Plus

Power: 450, 455, 460, 465 Watt  
Model: Black Frame  
Art. Nr.: 1103013000



### Tenka Solar Orion III Plus

Power: 450, 455, 460, 465 Watt  
Model: Bi-facial Black Mesh  
Art. Nr.: 1104013000



## Tenka Orion III Plus - Main benefits



### 23.27% module efficiency

23.27% module efficiency and 465W  
Peak power under 2 square metres



### Mono or bifacial

Two variants- the right module for every need



### Nanotech technology

Patented Tenka Nanotech technology for improved light absorption



### Durability

Low degradation, optimised long-term performance



### Product guarantee

30-year product guarantee for maximum investment security



### Performance guarantee

30-year performance guarantee on 87.4 % performance guaranteed

Minimum order quantity 1 pallet (36 pieces)

## Tenka Orion III Ultra



## Defines new standards for solar modules!

Our top model in the premium segment. Thanks to N-Type TOPCon technology and the patented Tenka Nanotech coating, Tenka Solar Orion III Ultra solar modules achieve a peak output of up to 485 watts and a module efficiency of 23.76%, setting new standards in solar power generation. They enable cost savings of up to 25 % for installation, substructure and labour. Thanks to their high resistance to extreme weather conditions and a guaranteed output of 87.4% after 30 years, they ensure long-lasting, constant energy production. Available in black frame or bi-facial glass-glass versions, the Tenka Orion III Ultra modules are ideal for use in private PV projects.



### Top performance

The Orion III Ultra solar modules increase the efficiency of any PV system thanks to the patented Nanotech technology. Tenka Solar PV modules offer an impressive output of 485 watts and a module efficiency of 23.76%. This maximises solar power production and optimises energy yield, making this PV module the ideal choice



### High yield reliability

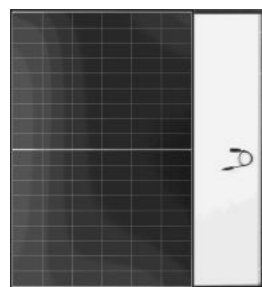
Thanks to their robust design, the modules can withstand extreme weather conditions and mechanical loads. A low temperature coefficient of just -0.29%/°C ensures improved performance at high temperatures. 30-year product guarantee and 30-year performance guarantee ensure long-term investment security



### For all applications

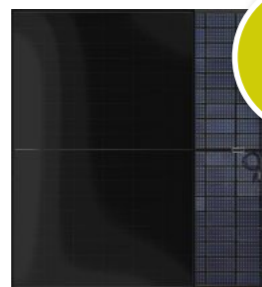
Orion III Ultra PV modules are also available in a bi-facial glass/glass version in addition to black frame. The bi-facial modules utilise the rear side for additional energy generation, increasing overall performance and efficiency. This enables adaptation to different installation requirements and maximises the yield

## Tenka Orion III Ultra - Overview



### Tenka Solar Orion III Ultra

Power: 470, 475, 480, 485 Watt  
Model: Black Frame  
Art. Nr.: 1103013100



### Tenka Solar Orion III Ultra

Power: 470, 475, 480, 485 Watt  
Model: Bi-facial Black Mesh  
Art. Nr.: 1104013100

## Tenka Orion III Plus - Main benefits



### 23.76% module efficiency

23.76% module efficiency and 485W Peak power



### Mono or bifacial

Two variants- the right module for every need



### Nanotech technology

Patented Tenka Nanotech technology for improved light absorption



### Durability

Low degradation, optimised long-term performance



### Product guarantee

30-year product guarantee for maximum investment security



### Performance guarantee

30-year performance guarantee or 87.4 % performance guaranteed

Minimum order quantity 1 pallet (36 pieces)

## Tenka Orion IV Ultimate



## The next level in solar power generation

Orion Ultimate technology enhances PV power plants by optimizing the Balance of System, significantly increasing light absorption for up to 24% module efficiency and 20% more power on the same surface.

It also reduces construction costs by 20%. The technology comes with a 30-year product and power warranty, ensuring less than 1% degradation in the first year and 0.40% annually over 30 years. Its high durability, low temperature coefficient, and positive power tolerance guarantee sustained performance.



### Peak Efficiency

Orion Ultimate enhances solar efficiency by expanding the light absorption area and eliminating front side busbars, resulting in improved module performance. This design innovation significantly increases the efficiency of solar light conversion, making it a superior choice for maximizing solar energy utilization.



### Reliability Enhanced

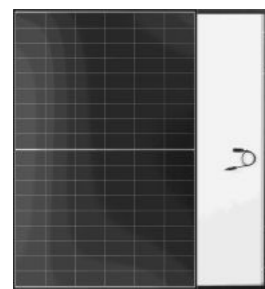
Orion Ultimate incorporates Back Contact Technology, lowering micro-crack risks. Its black design with no visible front contacts and optimized Balance of System offers considerable savings in construction and installation costs, marking a significant advancement in solar technology reliability.



### Superior Durability

Orion Ultimate is renowned for its low degradation, less than 1% in the first year and under 0.4% in subsequent years. It features a low temperature coefficient of -0.29%/°C for enhanced performance and a positive power tolerance of 0 to +3%, ensuring robust and consistent energy output over time.

## Tenka Orion IV Ultimate - Overview



### Tenka Orion IV Ultimate

Power: 450, 455, 460, 465 Watt  
Model: Black Frame  
Art. Nr.: 1103014000



### Tenka Orion IV Ultimate

Power: 450, 455, 460, 465 Watt  
Model: Full Black  
Art. Nr.: 1102014000

## Tenka Orion IV Ultimate - Main benefits



**23,8% Modul Efficiency**  
465W, increased solar absorption,  
no busbars



**Reliable Design**  
Back Contact, reduced  
micro-cracks



**Sleek Aesthetics**  
Full black, optimized BOS,  
cost-saving



**Lasting Durability**  
Low degradation, optimized  
performance



**Extended Warranty**  
Guaranteed 30-year product  
quality



**Power Assurance**  
Consistent power guaranteed  
for 30 years

Minimum order quantity 1 pallet (36 pieces)

## Tenka Power Center 1000 - Single Phase Inverter



## Smart and flexible single phase inverter generation

Discover the Tenka Power Center 1000 Series, specifically designed for residential PV scenarios. All MAX models are battery-ready Hybrid inverters seamlessly integrating with Tenka Power PV battery, for enhanced efficiency and reliability.

The MAX variant even goes a step further, featuring an integrated backup power solution for uninterrupted emergency energy supply. Both models boast advanced technology, easy installation, and IP66 protection, ensuring optimal performance in any weather conditions. Choose Tenka Power for robust, efficient, and future-ready solar energy solutions.



### Tenka Power Center 1000 PRO

A robust, efficient solar inverter designed to high international standards with IP66 protection. It offers dynamic energy optimization, 150% PV system oversizing, and easy installation. The user-friendly app allows real-time monitoring, perfect for residential rooftop solar installations.



### Tenka Power Center 1000 MAX

Tenka Power Center 1000 MAX Hybrid inverter series works with Tenka Power energy storages to store and use electric power during peak demand or grid outages thus reducing reliance on the utility grid, maximizing energy self-consumption, and increasing overall system efficiency and cost savings.



### Emergency power integrated

In case of a blackout the uninterruptible power supply (UPS) system provides a crucial benefit in maintaining power continuity to system owners. During power outages it seamlessly switches to backup power mode in milliseconds, ensuring no interruption in electricity power supply.

## Tenka Power Center 1000 - Overview



### Tenka Power Center 1000 PRO

Range: 3, 3.68, 4, 5, 6, 8, 10 kW  
Art. Nr.: 2101021000

### Tenka Power Center 1000 MAX

Range: 3, 3.68, 4, 5, 6, 8, 10 kW  
Art. Nr.: 2102021000

- ✓ Battery ready (up to 20 kWh)
- ✓ 1-phase Emergency Power
- ✓ EPS integrated <10ms

## Tenka Power Center 1000 - Main benefits



### Easy commissioning

Easy commissioning with Tenka Power Cloud App



### Monitoring with App

Full monitoring with Tenka Power Cloud App



### 150% oversizing

150% PV array oversizing for higher yields



### Arc fault circuit interruptor

AFCI protection reduces fire risk resulting from DC arcs.



### Maximum design flexibility

up to 3 MPPTs for versatility in PV system design and layout.



### Discreet and silent

Natural air-cooling ensures discreet and silent operation

## Tenka Power Center 3000 - Three Phase Inverter



## Smart and flexible three-phase inverter generation

Discover the Tenka Power Center 3000 Series, specifically designed for residential PV scenarios. All MAX models are battery-ready Hybrid inverters seamlessly integrating with Tenka Power PV battery, for enhanced efficiency and reliability.

The MAX variant even goes a step further, featuring an integrated backup power solution for uninterrupted emergency energy supply. Both models boast advanced technology, easy installation, and IP66 protection, ensuring optimal performance in any weather conditions. Choose Tenka Power for robust, efficient, and future-ready solar energy solutions.



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A robust, efficient solar inverter designed to high international standards with IP66 protection. It offers dynamic energy optimization, 150% PV system oversizing, and easy installation. The user-friendly app allows real-time monitoring, perfect for residential rooftop solar installations.



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### Emergency power integrated

In case of a blackout the uninterruptible power supply (UPS) system provides a crucial benefit in maintaining power continuity to system owners. During power outages it seamlessly switches to backup power mode in milliseconds, ensuring no interruption in electricity power supply.

## Tenka Power Center 3000 - Overview



### Tenka Power Center 3000 PRO

Range: 3, 4, 5, 6, 8, 10, 12\* kW  
Art. Nr.: 2201023000

### Tenka Power Center 3000 MAX

Range: 5, 6, 8, 10, 12 kW  
Art. Nr.: 2202023000

- ✓ Battery ready (up to 40 kWh)
- ✓ 3-phase Emergency Power
- ✓ EPS integrated <10ms

\* smart air cooling

## Tenka Power Center 3000 - Main benefits



**3-phase backup power**  
UPS level emergency backup power to supply the entire household



**Tenka Power Cloud App**  
For easy commissioning and 24/7 system monitoring



**150% oversizing**  
150% PV array oversizing for higher yields



**Arc fault circuit interruptor**  
AFCI protection reduces fire risk resulting from DC arcs.

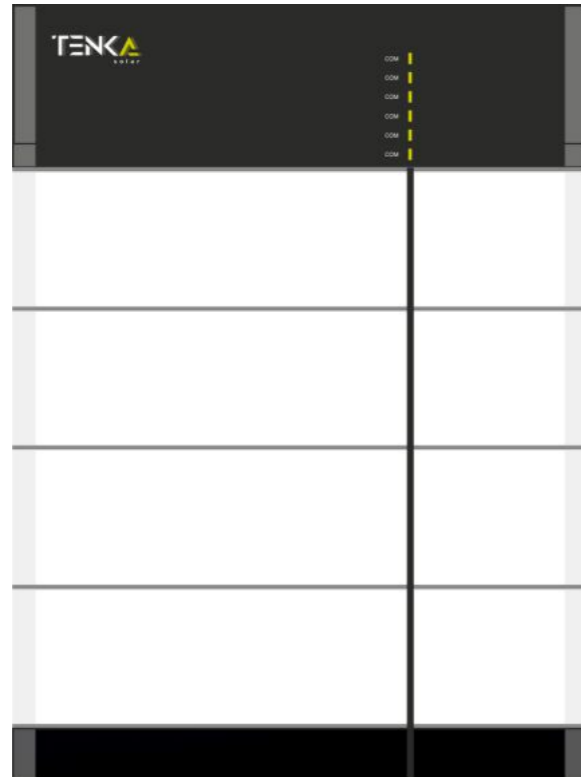


**Maximum design flexibility**  
up to 3 MPPTs for versatility in PV system design and layout.



**Discreet and silent**  
Natural air-cooling ensures discreet and silent operation

## Tenka Power Storage



## Tenka Power Storage - Overview



**Tenka Power Storage**

Range: 7.5 und 10 kWh  
Art. Nr.: 3402020000



**Tenka Power Storage**

Range: 12.5 und 15 kWh  
Art. Nr.: 3402020000



**Tenka Power Storage**

Range: 17.5 und 20 kWh  
Art. Nr.: 3402020000

## Scalable high-voltage energy storage

The Tenka Power Storage series sets a new standard for high-voltage batteries, offering reliable and fully customizable energy storage for homeowners.

Tenka Power Storage offers a modular solution tailored to your needs. With 7.5, 10, 12.5, 15, 17.5 or 20 kWh and the ability to expand later, the Tenka battery is ideal for responding to changing needs. Tenka Hybrid inverters work with Tenka Power energy storages to store and use electric power during peak demand or grid outages.



### Modular

The Tenka Power Storage system boasts a modular, easy-to-install design, scaling up to 20 kWh. Supporting multiple operation modes such as peak shaving, increased self consumption and time of use tariffs. Tenka Power Storage offers a versatile energy solution perfectly matching your needs.



### Reliable

Complying with highest quality and safety standards, the Tenka Power Storage series features highly reliable, IP65-certified high-voltage batteries for indoor and outdoor installation. A sophisticated Battery Management System monitors and controls performance, ensuring safety, efficiency and long-term operation.



### Installation & Monitoring

Tenka Power Storage series emphasizes user convenience with 24/7 online monitoring, providing real-time insights into energy production and consumption data. Seamless integration with Tenka Power Cloud App and Tenka hybrid inverters offering easy commissioning and quick installation.

## Tenka Power Storage - Main benefits



### Easy expansion

Modular Design for simple expansion by 2,5 kWh battery packs



### Plug & Play installation

Quick and easy plug and play installation



### Multi operation modes

Peak shaving, self consumption and time of use tariffs



### IP-65 Rating

IP65-rated design for reliable indoor and outdoor use



### Light weight

Compact and light weight design with just only 30 kg per battery pack



### Highest Safety standards

4 level safety protection and Lithium iron phosphate cell technology



## Tenka Power Charger



### Tenka Power Charger - Overview



**Tenka Power Charger MAX**

1-phase: 7.4 kW (7,5 m cable)  
Art. Nr.: 4103020000



**Tenka Power Charger MAX**

3-phase: 11 kW (7,5 m cable)  
Art. Nr.: 4103020001



**Tenka Power Charger MAX**

3-phase: 22 kW (7,5 m cable)  
Art. Nr.: 4103020002

## Revolutionary AC charging for electric vehicles

At Tenka Power, we are committed to a sustainable future. The advanced 1- and 3-phase Tenka Power Charger AC wallboxes combine aesthetic design with state-of-the-art technology. Experience a safe and smart charging experience at home. The sleek Tenka Power charging stations have numerous features such as RFID / NFC authentication, automatic phase detection and dynamic load balancing, making charging your electric vehicle easier than ever. Tenka Power AC chargers comply with the European IEC 61851-1 and CE standards and are suitable for unrestricted indoor and outdoor use thanks to protection class IP65.



### Reliable

All Tenka Power AC-EV chargers are built to last and comply with protection class Ip65 for indoor and outdoor use. With an IK10 protection rating and double-layered covers, they offer maximum protection. All Tenka Power EV chargers come with a 3-year product warranty for a reliable and safe investment



### Safe

Tenka Power Charger chargers comply with the European IEC 61851-1 and CE standards. Tenka Power EV chargers have integrated DC 6mA residual current protection and built-in PEN fault detection. Tenka Power AC chargers support RFID / NFC authentication and have an internal WIFI/BLE hotspot



### Smart

All Tenka Power AC EV chargers communicate with the Tenka Power Cloud via WIFI / BLE or optional 4G. The intelligent charging app enables control and 24/7 system monitoring. The app offers numerous functions such as scheduled or off-peak charging, charging in solar PV or eco mode and adjustable charging power

### Tenka Power Charger - Main benefits



### Innovative design

Robust and durable Housing in the colour black



### Simple installation

Quick installation & commissioning with the Tenka Power Cloud app



### Safe

Conform to the European IEC 61851-1 and CE standards



### Indoor & Outdoor

IP65 protection class, for indoor and indoor and outdoor use



### Smart

WIFI/BLE connectivity. Numerous functions available



### User-friendly

RFID / NFC authentication, automatic phase detection, dynamic load distribution

## Tenka Power Dongle LAN/WLAN



## Tenka Power Dongle LAN/WLAN - Overview



### Tenka Power Dongle - LAN/WLAN

Connection: LAN and WLAN  
Art. Nr.: 6102020000

## Simplified and smart solar monitoring

Tenka Power LAN/WLAN Dongles are our latest advancement in solar installation monitoring. This device simplifies inverter data tracking by offering 24/7 energy production insights via the Tenka Power Cloud mobile app. Designed to work in harsh conditions, it features IP66 waterproof design for reliable inverter connectivity.

Its tool-free installation and straightforward commissioning process allows quick setup. The Tenka Power Dongle LAN/WLAN provides efficient monitoring and comprehensive real-time performance data tracking of your PV system.



### Compact and Reliable Design

The Tenka Power LAN/WLAN Dongle features a sleek, compact design, measuring just 170 x 50 x 30 mm. With an IP66 rating it offers waterproof design ideal for harsh weather conditions. Tenka Power LAN/WLAN Dongles perfectly work together with Tenka Power Cloud App.



### Intelligent Monitoring

Tenka Power LAN/WLAN Dongles seamlessly connect to Tenka Power App for simple 24/7 monitoring of your PV system. Supporting up to five devices, it provides real-time photovoltaic data on your smartphone. Easy commissioning with QR code streamlining the installation process to make it efficient and user-friendly.



### Simple communication

Emphasizing simplicity Tenka Power LAN/WLAN Dongles offer a plug and play tool-free installation. Simply plug into your inverter and start the setup process with Tenka Power Cloud App. This underscores our commitment to providing advanced technology, ensuring a seamless experience for both users and installers.

## Tenka Power Dongle LAN/WLAN - Main benefits



### Supports 10 devices

Tenka Power LAN/WLAN Dongles can manage up to 10 devices



### Connectivity

Supports all mainstream WLAN & broadband networks



### Easy Monitoring

24/7 monitoring through Tenka Power Cloud App



### Maximum Protection

IP66-rated for reliable indoor and outdoor use



### Plug and Play

Compatible with a wide range of Tenka Power inverters



### Zero export

Features smart zero export control

## Tenka Power Dongle 4G



## Tenka Power Dongle 4G - Overview



### Tenka Power Dongle 4G

Connection: 4G  
Art. Nr.: 6103020000

## Over the air cellular communication

Tenka Power innovative 4G Dongle enhances solar installation monitoring, offering an easy way to track inverter data. This user-friendly device supports up to 5 devices, and provides 24/7 real-time energy production data of your PV-system through Tenka Power Cloud App.

Ip66 protection rating allows unrestricted indoor and outdoor use ensuring a stable connection in all weather conditions. Dongle mounting is tool-free and commissioning is done easy with the Tenka Power Cloud App.



### Compact and robust design

Tenka Power 4G Dongle with Micro-SIM card comes in a compact size of just 154 x 50 x 33 mm and a robust IP66 waterproof design ensuring reliable 24/7 solar monitoring also in harsh weather conditions. Tenka Power 4G Dongles perfectly work together with Tenka Power Cloud App.



### Intelligent Monitoring

Tenka Power 4G Dongles seamlessly connect to Tenka Power App for simple 24/7 monitoring of your PV system. Supporting up to five devices, it provides real-time photovoltaic data on your smartphone. Easy commissioning with QR code streamlining the installation process to make it efficient and user-friendly.



### Simple communication

Emphasizing simplicity Tenka Power 4G Dongles offer a plug and play tool-free installation. Simply plug into your inverter and start the setup process with Tenka Power Cloud App. This underscores our commitment to providing advanced technology, ensuring a seamless experience for both users and installers.

## Tenka Power Dongle 4G - Main Benefits



### Supports 5 Devices

Tenka Power 4G Dongle manages up to 5 devices



### Cellular Technology

Connects using high-speed cellular technology



### Easy Monitoring

24/7 monitoring through Tenka Power Cloud App



### Maximum Protection

IP66-rated for reliable indoor and outdoor use



### Plug and Play

Compatible with a wide range of Tenka Power inverters



### Automatic Uploads

Automatic data uploads once connected

## Tenka Power Guard 2-2



## The benchmark in PV-System safety

The Tenka Power Guard 2-2 DC junction box with integrated type 1 and 2 overvoltage surge protection is a high-quality solution for protecting solar systems equipment against any dangerous overvoltage such as direct and indirect lightning strikes or transient overvoltages.

This solution enables the simple connection of two independent MPP trackers and up to a maximum of four PV strings to the inverter. Tenka Power Guard 2-2 helps you to protect your investment and optimizes the performance of your solar system.



### System Compatibility

The Tenka Power Guard is compatible with a wide range of inverters and solar modules. Featuring 1.100 Volt, connections for two independent MPPT trackers, each supporting up to two strings, offering a flexible and safe solution for any system configurations, maximizing overall system safety.



### Surge Protection

Tenka Power Guard provides superior protection for your system with integrated Type 1+2 surge protection. It effectively guards against damages caused by overvoltages resulting from direct and indirect lightning strikes. Not just only protecting your PV-system but your entire home.



### Robust Design

The Tenka Power Guard 2-2 impresses with its robust Ip65 polycarbonate housing and high impact resistance (Ik10), making it exceptionally durable. The transparent window allows easy monitoring for simple maintenance and continuous observation of built-in surge protection devices.

## Tenka Power Guard 2-2 - Overview



## Tenka Power Guard 2-2

2 MPPT, up to 4 strings  
Art. Nr.: 6301030000

## Tenka Power Guard 2-2 - Main benefits



### Universal Compatibility

Suitable for all common inverters and solar modules



### DC junction Box

For photovoltaic systems up to 1,100 V DC and 40 A



### Surge Protection Type 1+2

Quick and simple surge protection implementation



### Complete Installation Kit

Includes all necessary mounting and connection accessories.



### System design flexibility

supporting 2 independent MPPT trackers up to 4 PV strings



### Easy O&M

Transparent window for checking surge protector status

## Tenka Power Meter



## Advanced Multi-Phase Electricity Metering

The Tenka Power Meter is both a single-phase and three-phase multifunction 100A direct fed DIN rail mounted electricity meter with built in Modbus and Pulsed outputs. It can measure and display the characteristic of 1p2w, 3p3w and 3p4w supplies, with a user-friendly menu navigation and highly visible LCD display.

Tenka Power Meter connects automatically per plug & play and ensures precision accuracy Class 0.5 for versatile and reliable measuring capabilities.



### Versatile Measuring Capabilities

The Tenka Power Meter supports both single-phase and three-phase configurations, suitable for a variety of installations including residential, commercial, and industrial settings. It measures 1p2w, 3p3w, and 3p4w supplies with ease, making it adaptable to diverse electrical environments.



### Precision and Reliability

With Class 0.5 accuracy, the Tenka Power Meter offers precise and dependable readings essential for energy management and billing purposes. It directly measures up to 100A in three-phase systems and supports 1/5A input CTs, ensuring accuracy for any scenarios.



### User-Friendly Design

The Tenka Power Meter features an intuitive menu and clear LCD display for hassle-free operation. Its built-in Modbus and Pulsed outputs allow easy integration into building management systems. Tenka Power Meters DIN rail-mounted design simplifies installation.

## Tenka Power Meter - Overview



### Tenka Power Meter

Single and three phase measuring  
Art. Nr.: 6204020000



### Tenka Power Meter + CT

Tenka Power Meter + 3 x CT 120 A  
Art. Nr.: 6206020000



### Tenka Power Meter + CT

Tenka Power Meter + 3 x CT 300 A  
Art. Nr.: 6206020000

## Tenka Power Meter - Main benefits



### Modbus interface

Built-in Modbus and pulsed outputs for connectivity



### Precision Accuracy

Ensures Class 0.5 accuracy for reliable readings



### Versatility

Supports both single and three-phase systems and Ct's



### LCD Display

Easy-to-read, real-time energy data display



### CT Input Support

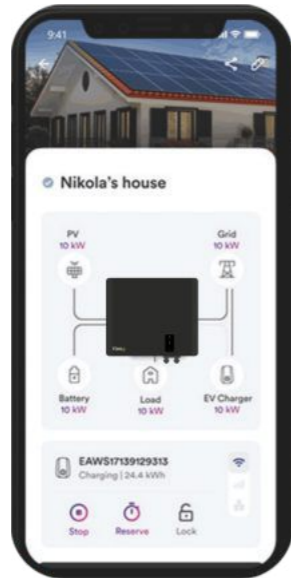
Supports 1/5A input CTs for enhanced flexibility



### Export control

Efficiently regulate and monitor energy export

## Tenka Power Cloud App for iOS and Android



## Smart PV-system monitoring - anytime, anywhere, at no costs

Tenka Power Cloud App simplifies numerous processes for the installation and operation of PV systems tailored to the needs of operators and installers.

Key features include device management, real-time energy flow information, and alert notifications. The app also supports easy commissioning, self-identifying components, and advanced functions like proactive system diagnostics and performance data storage, significantly reducing maintenance time.



### For installers and end-users

Tenka Power Cloud App is an advanced, user-friendly mobile app for PV system monitoring. Tenka Power Cloud App offers intuitive visualization for tracking real-time system production, energy consumption and historical data. The streamlined setup and commissioning wizard makes life easier for installers.



### Easy & Intuitive Use

Tenka Power Cloud App offers fast and easy access to real-time energy production and historical data of your PV system. It allows quick identification and optimization of performance issues to maximize overall system output. Several management permissions can be assigned to multiple users.



### From anywhere, at anytime

Tenka Power Cloud App provides access to real-time data of your PV system from anywhere, anytime. Tenka Power Cloud App ensures accurate and up-to-date information you can rely on. Tenka Power Cloud App offers real-time fault notifications, remote troubleshooting and online system updates.

## Tenka Power Cloud App - Download Links

### Tenka Power Cloud App iOS

For Apple Devices  
Art. Nr.: 6107020001

### Tenka Power Cloud App Android

For Android Devices  
Art. Nr.: 6107020002

## Tenka Power Cloud App - Main benefits



### 24/7 System Monitoring

Real time monitoring via Tenka Power Cloud



### Free of charge

Free of charge and free life-time updates



### Intuitive App Interface

Simple and user-friendly interface



### Quick Setup

Quick and easy commissioning and configuration



### Multi-User Access

Manage multiple users with several rights



### Instant Fault Alerts

Real-time notifications and troubleshooting tips

# Tenka Residential - All from a single source!

## Tenka Power Center Residential - 1 phase



**Tenka Power Center 1000 PRO**  
3, 3.68, 4, 5, 6, 8, 10 kW



**Tenka Power Center 1000 MAX**  
3, 3.68, 4, 5, 6, 8, 10 kW  
 ✓ Battery ready  
 ✓ 1-phase Emergency Power

## Tenka Power Center Residential - 3 phase



**Tenka Power Center 3000 PRO**  
3, 4, 5, 6, 8, 10, 12 kW



**Tenka Power Center 3000 MAX**  
5, 6, 8, 10, 12 kW  
 ✓ Battery ready  
 ✓ 3-phase Emergency Power

## Tenka Power Charger Residential



**Tenka Power Charger MAX**  
7.4 kW

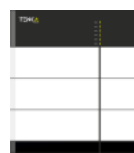


**Tenka Power Charger MAX**  
11 kW



**Tenka Power Charger MAX**  
22 kW

## Tenka Power Storage PV-Battery



**Tenka Power Storage**  
7.5, 10 kWh



**Tenka Power Storage**  
12.5, 15 kWh

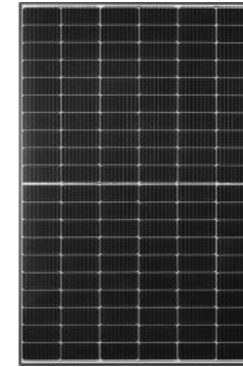


**Tenka Power Storage**  
17.5, 20 kWh

## Tenka Solar PV-Modules



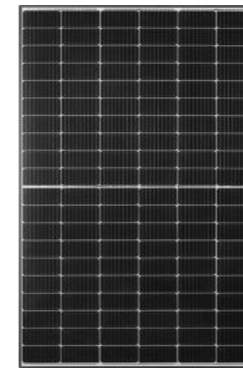
**Tenka Orion III Plus**  
Black Frame, max. 465 Watt



**Tenka Orion III Plus**  
Bifacial, max. 465 Watt



**Tenka Orion III Ultra**  
Black Frame, max. 485 Watt



**Tenka Orion III Ultra**  
Bifacial, max. 485 Watt



**Tenka Orion IV Ultimate**  
Black Frame, max. 465 Watt



**Tenka Orion IV Ultimate**  
Full Black, max. 465 Watt

## Tenka Power Safety, Communication & Monitoring Devices



**Tenka Power Dongle LAN / WLAN**  
Wifi & Ethernet up to 10 devices



**Tenka Power Dongle 4G**  
4G/LTE up to 10 devices



**Tenka Power Guard 2-2**  
2 MPPT SPD T1 & T2



**Tenka Power Meter**  
3-phasier Stromsensor



**Tenka Power Cloud App**  
App Apple & Android

# Tenka power ecosystem for commercial scenarios



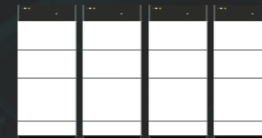
01 Tenka PV-Panels



02 Tenka Power Center



03 Tenka Power Charger



04 Tenka Power Storage



05 Tenka Power Heat

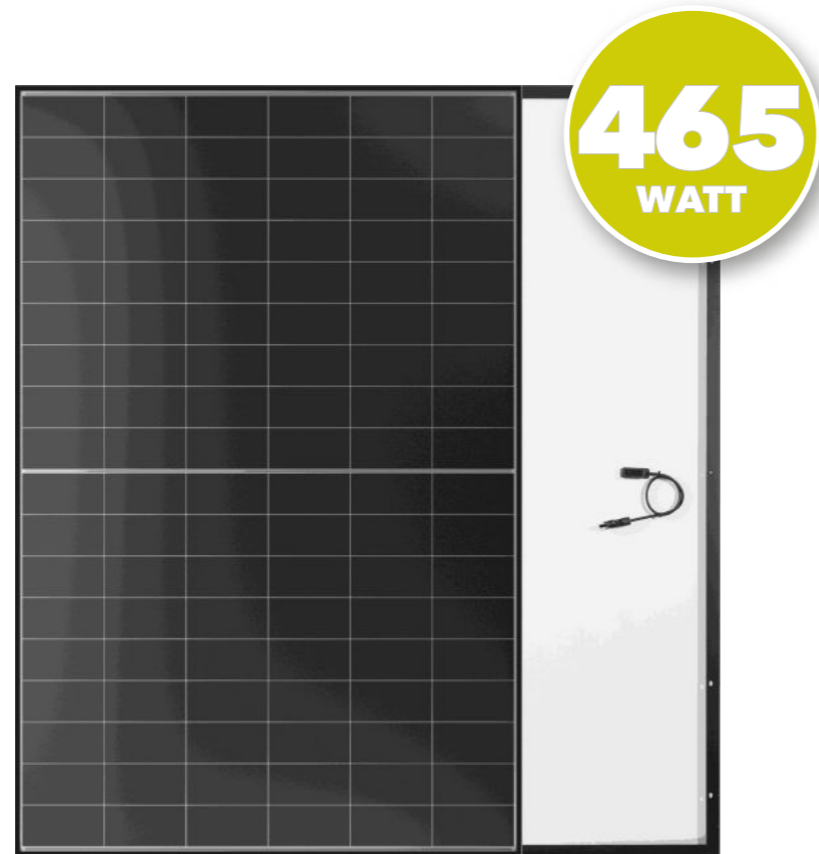


06 Tenka Power Cloud

*Coming Soon*



## Tenka Orion III Plus



## Orion - the entry into the premium segment

Our entry into the premium segment. Tenka Solar Orion III Plus solar modules set new standards in solar power generation thanks to N-Type TOPCon technology, a peak output of up to 465 watts and a module efficiency of 23.27 %. They enable cost savings of up to 15 % for installation, substructure and labour. Thanks to their high resistance to extreme weather conditions and a guaranteed output of 87.4 % after 30 years, they ensure long-lasting, constant energy production. Available in full black, black frame or bi-facial glass-glass versions, the Tenka Orion III Plus modules are ideal for use in commercial PV projects.



### Top performance

The Orion III Plus solar modules increase the efficiency of any PV system thanks to the patented Nanotech technology. Tenka Solar modules offer an impressive output of 465 watts and a module efficiency of 23.27%. This maximises solar power production and optimises energy yield, making this PV module the ideal choice



### High yield reliability

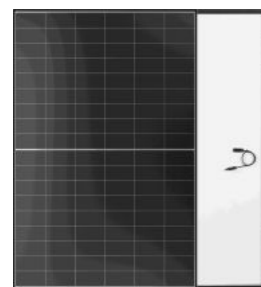
Thanks to their robust design, the modules can withstand extreme weather conditions and mechanical loads. A low temperature coefficient of just -0.29%/°C ensures improved performance at high temperatures. 30-year product guarantee and 30-year performance guarantee ensure long-term investment security



### For all applications

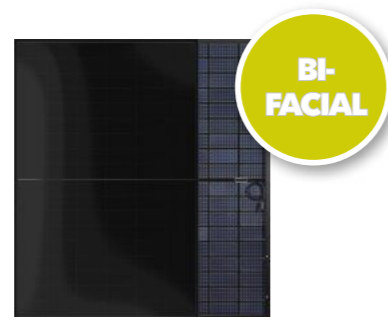
Orion III Plus modules are also available in a bi-facial version in addition to Black Frame. The bi-facial modules utilise the rear side for additional energy generation, increasing overall performance and efficiency. This flexibility enables adaptation to different installation requirements and maximises yield

## Tenka Orion III Plus - Overview



### Tenka Solar Orion III Plus

Power: 450, 455, 460, 465 Watt  
Model: Black Frame  
Art. Nr.: 1103013000



### Tenka Solar Orion III Plus

Power: 450, 455, 460, 465 Watt  
Model: Bi-facial Black Mesh  
Art. Nr.: 1104013000

## Tenka Orion III Plus - Main benefits



### 23.27% module efficiency

23.27% module efficiency and 465W  
Peak power under 2 square metres



### Mono or bifacial

Two variants- the right module  
for every need



### Nanotech technology

Patented Tenka Nanotech technology  
for improved light absorption



### Durability

Low degradation, optimised long-term  
performance



### Product guarantee

30-year product guarantee for  
maximum investment security

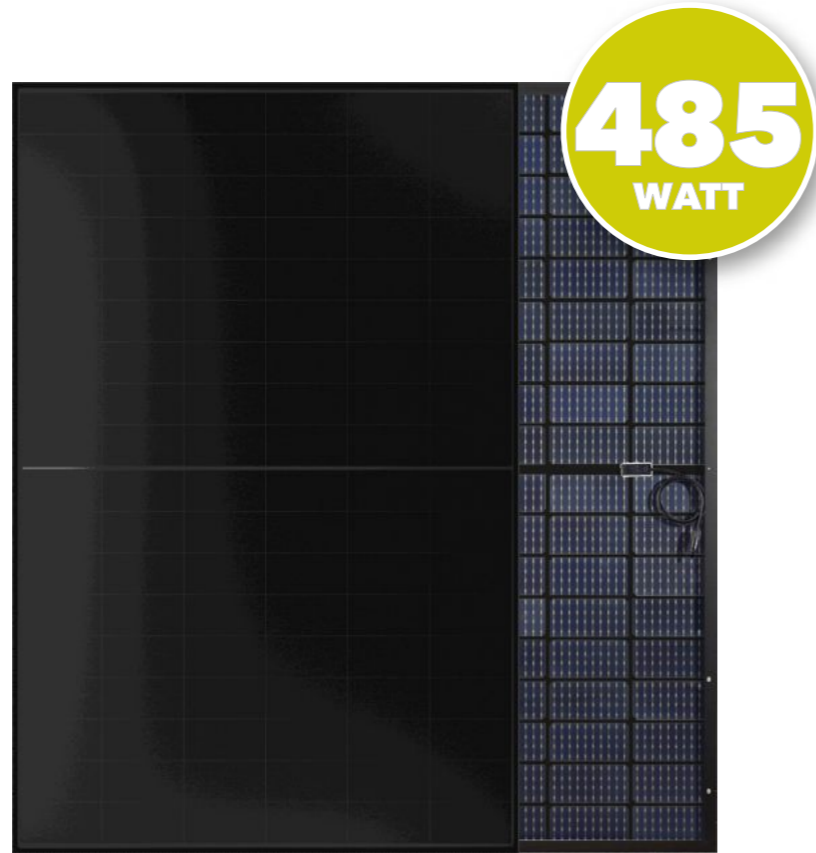


### Performance guarantee

30-year performance guarantee on  
87.4 % performance guaranteed

Minimum order quantity 1 pallet (36 pieces)

## Tenka Orion III Ultra



## Defines new standards for solar modules!

Our top model in the premium segment. Thanks to N-Type TOPCon technology and the patented Tenka Nanotech coating, Tenka Solar Orion III Ultra solar modules achieve a peak output of up to 485 watts and a module efficiency of 23.76%, setting new standards in solar power generation. They enable cost savings of up to 25 % for installation, substructure and labour. Thanks to their high resistance to extreme weather conditions and a guaranteed output of 87.4% after 30 years, they ensure long-lasting, constant energy production. Available in black frame or bi-facial glass-glass versions, the Tenka Orion III Ultra modules are ideal for use in commercial PV projects.



### Top performance

The Orion III Ultra solar modules increase the efficiency of any PV system thanks to the patented Nanotech technology. Tenka Solar PV modules offer an impressive output of 485 watts and a module efficiency of 23.76%. This maximises solar power production and optimises energy yield, making this PV module the ideal choice



### High yield reliability

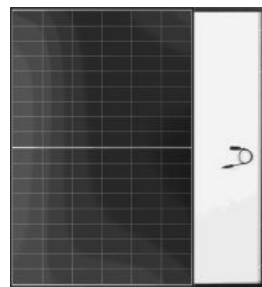
Thanks to their robust design, the modules can withstand extreme weather conditions and mechanical loads. A low temperature coefficient of just -0.29%/°C ensures improved performance at high temperatures. 30-year product guarantee and 30-year performance guarantee ensure long-term investment security



### For all applications

Orion III Ultra PV modules are also available in a bi-facial glass/glass version in addition to black frame. The bi-facial modules utilise the rear side for additional energy generation, increasing overall performance and efficiency. This enables adaptation to different installation requirements and maximises the yield

## Tenka Orion III Ultra - Overview



### Tenka Solar Orion III Ultra

Power: 470, 475, 480, 485 Watt  
Model: Black Frame  
Art. Nr.: 1103013100



### Tenka Solar Orion III Ultra

Power: 470, 475, 480, 485 Watt  
Model: Bi-facial Black Mesh  
Art. Nr.: 1104013100

## Tenka Orion III Plus - Main benefits



**23.76% module efficiency**  
23.76% module efficiency and 485W Peak power



**Mono or bifacial**  
Two variants- the right module for every need



**Nanotech technology**  
Patented Tenka Nanotech technology for improved light absorption



**Durability**  
Low degradation, optimised long-term performance



**Product guarantee**  
30-year product guarantee for maximum investment security



**Performance guarantee**  
30-year performance guarantee or 87.4 % performance guaranteed

Minimum order quantity 1 pallet (36 pieces)

## Tenka Orion IV Ultimate



## The next level in solar power generation

Orion Ultimate technology enhances PV power plants by optimizing the Balance of System, significantly increasing light absorption for up to 24% module efficiency and 20% more power on the same surface.

It also reduces construction costs by 20%. The technology comes with a 30-year product and power warranty, ensuring less than 1% degradation in the first year and 0.40% annually over 30 years. Its high durability, low temperature coefficient, and positive power tolerance guarantee sustained performance.



### Peak Efficiency

Orion Ultimate enhances solar efficiency by expanding the light absorption area and eliminating front side busbars, resulting in improved module performance. This design innovation significantly increases the efficiency of solar light conversion, making it a superior choice for maximizing solar energy utilization.



### Reliability Enhanced

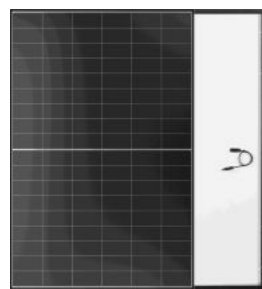
Orion Ultimate incorporates Back Contact Technology, lowering micro-crack risks. Its black design with no visible front contacts and optimized Balance of System offers considerable savings in construction and installation costs, marking a significant advancement in solar technology reliability.



### Superior Durability

Orion Ultimate is renowned for its low degradation, less than 1% in the first year and under 0.4% in subsequent years. It features a low temperature coefficient of -0.29%/°C for enhanced performance and a positive power tolerance of 0 to +3%, ensuring robust and consistent energy output over time.

## Tenka Orion IV Ultimate - Overview



### Tenka Orion IV Ultimate

Power: 450, 455, 460, 465 Watt  
Model: Black Frame  
Art. Nr.: 1103014000



### Tenka Orion IV Ultimate

Power: 450, 455, 460, 465 Watt  
Model: Full Black  
Art. Nr.: 1102014000

## Tenka Orion IV Ultimate - Main benefits



**23,8% Modul Efficiency**  
465W, increased solar absorption,  
no busbars



**Reliable Design**  
Back Contact, reduced  
micro-cracks



**Sleek Aesthetics**  
Full black, optimized BOS,  
cost-saving



**Lasting Durability**  
Low degradation, optimized  
performance



**Extended Warranty**  
Guaranteed 30-year product  
quality



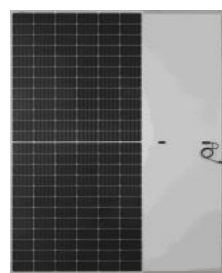
**Power Assurance**  
Consistent power guaranteed  
for 30 years

Minimum order quantity 1 pallet (36 pieces)

## Tenka Orion Serie VII Plus



## Tenka Orion Serie VII Plus - Overview



### Tenka Orion Serie VII Plus

Leistung: 590, 595, 600, 605 Watt  
 Ausführung: Silver Frame  
 Art. Nr.: 1401017000

## When performance matters

Tenka Solar Orion VII Plus solar modules set new standards in solar power generation thanks to N-Type TOPCon technology, a peak output of up to 605 watts and a module efficiency of 23.41%. They enable cost savings of up to 15% for installation, substructure and labour. Thanks to their high resistance to extreme weather conditions and a guaranteed output of 87.4% after 30 years, they ensure long-lasting, constant energy production.



### Top performance

The Orion VII Plus solar modules increase the efficiency of any PV system thanks to the patented Nanotech technology. Tenka Solar modules offer an impressive output of 605 watts and a module efficiency of 23.41%. This maximises solar power production and optimises energy yield, making this PV module the ideal choice



### High yield reliability

Thanks to their robust design, the modules can withstand extreme weather conditions and mechanical loads. A low temperature coefficient of just -0.29%/°C ensures improved performance at high temperatures. 30-year product guarantee and 30-year performance guarantee ensure long-term investment security



### Highest efficiency

Tenka Solar Orion solar modules capture more light than conventional solar modules, reducing temperature-related power losses. This results in higher module efficiency and higher output per square metre, making them an optimal choice for maximising energy production and yields

## Tenka Orion VII Plus - Main benefits



### 23.41% module efficiency

23.41% module efficiency and 605W peak power



### Power 605 watts

Maximum output of 605 watts



### Nanotech coating

Patented Tenka Nanotech coating for improved light absorption



### Durability

Low degradation, optimised long-term performance



### Product guarantee

30-year product guarantee for maximum investment security



### Performance guarantee

30-year performance guarantee on 87.4% performance guaranteed

\* Minimum order quantity 1 Container (620 Pcs.)

## Tenka Orion Serie VIIs



## Bi-facial technology and maximum output

Tenka Solar Orion VIIs solar modules set new standards for bifacial PV modules thanks to N-Type TOPCon technology and a peak output of up to 635 watts as well as a module efficiency of 23.51%. They enable cost savings of up to 25% for installation, substructure and labor. Thanks to their high resistance to extreme weather conditions and a guaranteed output of 87.4% after 30 years, they ensure long-lasting, constant energy production. As a bi-facial glass-glass variant, these glass/glass modules are ideal for use in commercial and agricultural PV projects



### Peak performance

Tenka solar modules increase the efficiency of any PV system thanks to the patented Nanotech technology and offer an impressive output of 635 watts and a module efficiency of 23.51%. This maximizes solar power production, optimizes energy yield and makes this PV module the ideal choice for commercial and agricultural PV projects



### High yield reliability

Thanks to their robust design, the modules can withstand extreme weather conditions and mechanical stress. A low temperature coefficient of just -0.29%/°C ensures improved performance at high temperatures. 30-year product guarantee and 30-year performance guarantee ensure long-term investment security



### Highest efficiency

Tenka Orion VII's solar modules capture more light than conventional modules thanks to the bifacial rear power boost. This results in a higher module yield and a higher output per square meter, increasing the performance and efficiency of the entire system. Ideal for commercial and agricultural PV projects

## Tenka Orion Serie VIIs - Overview



### Tenka Orion Serie VIIs

Power: 620, 625, 630, 635 Watt  
 Model: Bi-facial, Silver Frame  
 Art. Nr.: 1401017000

## Tenka Orion VIIs - Main benefits



**23.51% module efficiency**  
 23.51% module efficiency and 635W peak power



**Power 635 watts**  
 Maximum 635 watts and bifacial power boost



**Nanotech coating**  
 Patented Tenka Nanotech coating for improved light absorption



**Durability**  
 Low degradation, optimised long-term performance



**Product guarantee**  
 30-year product guarantee for maximum investment security



**Performance guarantee**  
 30-year performance guarantee on 87.4% performance guaranteed

\* Minimum order quantity 1 Container (620 Pcs.)

## Tenka Power Center 5000 - Three Phase Inverter



## Tenka Power Center 5000 - Overview



### Tenka Power Center 5000 PRO

Range: 12, 15, 17, 20 kW  
Art. Nr.: 2201025000

### Tenka Power Center 5000 MAX

Range: 12, 15, 17, 20, 25, 27, 30 kW  
Art. Nr.: 2202025000

- ✓ Battery ready (up to 80 kWh)
- ✓ 3-phase Emergency Power

## Smart and versatile 3-phase commercial inverter

Discover the Tenka Power Center 5000 Series, specifically designed for small and medium PV scenarios. All MAX models are battery-ready Hybrid inverters seamlessly integrating with Tenka Power PV battery, for enhanced efficiency and reliability.

The MAX variant even goes a step further, featuring an integrated backup power solution for uninterrupted emergency energy supply. Both models boast advanced technology, easy installation, and IP66 protection, ensuring optimal performance in any weather conditions. Choose Tenka Power for robust, efficient, and future-ready solar energy solutions.



### Tenka Power Center 5000 PRO

A robust, powerful inverter ideal for small and medium commercial, PV systems. Featuring IP66 protection, 32A maximum DC input current, and allows 150% PV array oversizing. Easy installation and real-time monitoring via a mobile app make it a versatile choice for diverse solar installations.



### Tenka Power Center 5000 MAX

Tenka Power Center 5000 MAX Hybrid inverter series works with Tenka Power energy storages to store and use electric power during peak demand or grid outages thus reducing reliance on the utility grid, maximizing energy self-consumption, and increasing overall system efficiency and cost savings.



### Emergency power integrated

In case of a blackout the uninterruptible power supply (UPS) system provides a crucial benefit in maintaining power continuity to system owners. During power outages it seamlessly switches to backup power mode in milliseconds, ensuring no interruption in electricity power supply.

## Tenka Power Center 5000 - Main benefits



### 3-phase backup power

UPS level emergency backup power to supply the entire household



### Tenka Power Cloud App

For easy commissioning and 24/7 system monitoring



### IP-66 Rating

IP66-rated design for reliable outdoor use



### Arc fault circuit interruptor

AFCI protection reduces fire risk resulting from DC arcs.



### Maximum design flexibility

up to 4 MPPTs for versatility in PV system design and layout.



### Fuse-less Design

Reducing BOS and O&M costs

## Tenka Power Center 7000 - Three Phase Commercial Inverter



## Tenka Power Center 7000 - Overview



### Tenka Power Center 7000

Range: 25, 27, 30, 33, 36, 40 kW  
Art. Nr.: 2201027000

## Smart and flexible three-phase small commercial inverter generation

The Tenka Power Center 7000 series inverters combine durable design with high reliable performance, ideal for small and medium scale commercial and agricultural solar scenarios.

These robust and compact inverters support 182/210mm PV modules and feature three independent MPP trackers with up to 32/40A DC input current each. Capable of 150% PV oversizing, enabling dual string configurations and supporting bi-facial and high current PV modules, offering a versatile and efficient energy solution.



### Reliability

Engineered to international quality and safety standards, the Tenka Power Center 7000 series features reliable solar inverters with IP66 protection. Supporting DC reverse polarity protection, AC sensitive residual current monitoring, and Type II AC and DC overvoltage protection, ensuring safe operation in any conditions.



### Performance

The Tenka Power Center 7000 series boasts a maximum 32/40A DC input current and 3 MPPTs for optimal energy performance with bi-facial and high current PV modules. Capable of 150% PV array oversizing, these inverters are ideal for any commercial rooftop and agricultural ground mounted solar installations.



### Installation & Monitoring

Designed for quick and easy installation with standard tools, these inverters are compatible with a wide range of solar panels. Various optional communication options enable connectivity with Tenka Power Cloud portal. Allowing easy O&M and 24/7 real-time data monitoring.

## Tenka Power Center 7000 - Main benefits



**32/40A String Current**  
32/40A maximum DC current per MPPT input



**Fuse-less Design**  
Reducing BOS and O&M costs



**150% oversizing**  
150% PV array oversizing for higher yields



**Compact and lightweight**  
Compact and lightweight design for easy installation



**IP-66 Rating**  
IP66-rated design for reliable outdoor use



**Arc fault circuit interruptor**  
AFCI protection reduces fire risk resulting from DC arcs.

## Tenka Power Center 7100 - Three Phase Commercial Inverter



## Tenka Power Center 7100 - Overview



### Tenka Power Center 7100

Range: 45, 50, 60 kW  
Art. Nr.: 2201027100

## Innovative technology for high energy yields

The Tenka Power Center 7100 Series is a breakthrough in three-phase solar inverters, tailored for medium size PV systems. It's designed for exceptional energy yields, boasting 150% PV array oversizing and up to 5 MPPTs for optimal performance.

This series of commercial inverters comes in a compact and light weight design for easy and fast installation with built-in shade management system. Its fuse-free design with integrated DC switches and type II AC/DC surge protection ensures safety and reduces both BOS as well as O&M costs.



### Reliability

Engineered to international quality and safety standards, the Tenka Power Center 7000 series features reliable solar inverters with IP66 protection. Supporting DC reverse polarity protection, AC sensitive residual current monitoring, and Type II AC and DC overvoltage protection, ensuring safe operation in any conditions.



### Performance

The Tenka Power Center 7100 series boasts a maximum 32/40A DC input current and up to 5 MPPTs for optimal energy performance with bi-facial and high current PV modules. Capable of 150% PV array oversizing, these inverters are ideal for any commercial rooftop and agricultural ground mounted solar installations.



### Installation & Monitoring

Designed for quick and easy installation with standard tools, these inverters are compatible with a wide range of solar panels. Various optional communication options enable connectivity with Tenka Power Cloud portal. Allowing easy O&M and 24/7 real-time data monitoring.

## Tenka Power Center 7100 - Main benefits



### Maximum design flexibility

up to 5 MPPTs for versatility in PV system design and layout.



### Fuse-less Design

Reducing BOS and O&M costs



### 150% oversizing

150% PV array oversizing for higher yields



### Compact and lightweight

Compact and lightweight design for easy installation



### IP-66 Rating

IP66-rated design for reliable outdoor use



### Arc fault circuit interruptor

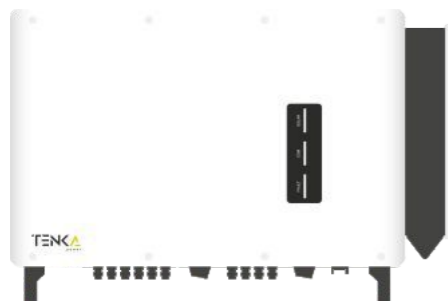
AFCI protection reduces fire risk resulting from DC arcs.



## Tenka Power Center 7500 - Three Phase Industrial Inverter



## Tenka Power Center 7500 - Overview



### Tenka Power Center 7500

Range: 80, 100, 110 kW  
Art. Nr.: 2201027500

## State of the art technology for high energy yields

The Tenka Power Center 7500 series offers highly flexible and robust inverter solutions for commercial and industrial plants with significant energy needs. These units are designed to support businesses in achieving low-carbon goals.

Featuring a compact, award-winning design with IP66 rating, they ensure durability in harsh weather. With up to ten independent MPP trackers and 150% DC/AC ratio oversizing, they offer unparalleled flexibility in system design. Additionally, the integrated shadow management system ensures consistent electricity production, even in partial shade.



### High Power

The Tenka Power Center 7500 series is engineered for power, offering a 16A maximum DC input and 10 MPPTs for optimized energy performance with bi-facial and large-area modules. Ideal for varied residential rooftops, it allows 150% PV array oversizing, catering to diverse design needs and scales.



### Enhanced Control

Featuring 24/7 monitoring, user-friendly setup via the Tenka Power Cloud app, and advanced string-level management, the Tenka Power Center 7500 series also includes the Tenka Ai-Logger for efficient photovoltaic management. These features collectively aid in reducing energy costs effectively.



### Easy Install & Monitor

The Tenka Power Center 7500 is designed for quick, tool-free installation, compatible with a range of panels. Optional internet connectivity, provided by Plug & Play and 4G dongles, enables monitoring up to five inverters through the Tenka Power Cloud App, offering real-time data and system alerts.

## Tenka Power Center 7500 - Main benefits



### Maximum design flexibility

up to 10 MPPTs for versatility in PV system design and layout.



### Fuse-less Design

Reducing BOS and O&M costs



### 150% oversizing

150% PV array oversizing for higher yields



### 32A String Current

32A maximum DC current per MPPT input



### IP-66 Rating

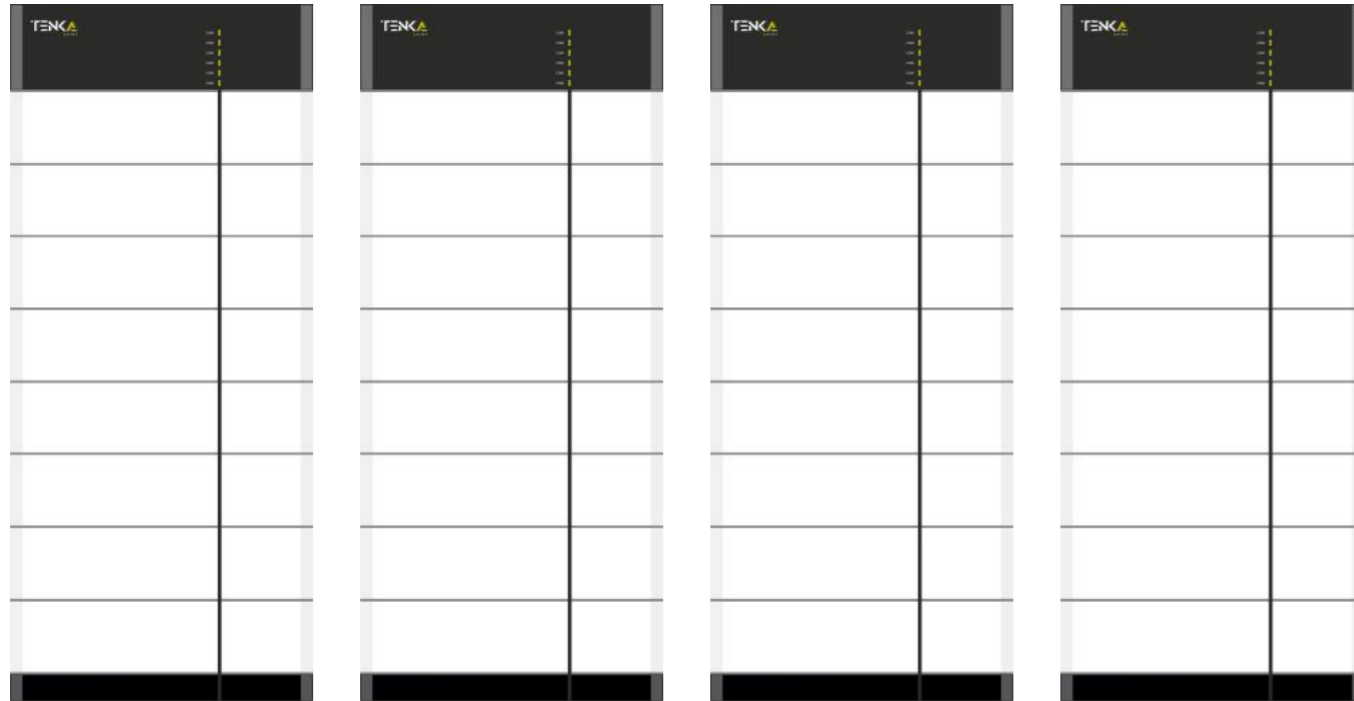
IP66-rated design for reliable outdoor use



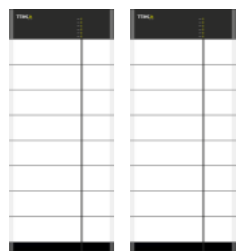
### Arc fault circuit interruptor

AFCI protection reduces fire risk resulting from DC arcs.

## Tenka Power Storage



## Tenka Power Storage - Overview



**Tenka Power Storage**

Range: up to 40 kWh  
Art. Nr.: 3402020000



**Tenka Power Storage**

Range: up to 60 kWh  
Art. Nr.: 3402020000



**Tenka Power Storage**

Range: up to 80 kWh  
Art. Nr.: 3402020000

## Scalable high-voltage commercial energy storage

The Tenka Power Storage series sets a new standard for high-voltage batteries, offering reliable and fully customizable energy storage for agricultural, commercial and industrial applications.

With capacities ranging from 20 to 80 kWh per inverter Tenka Power Storage offers a modular solution tailored to your individual energy needs. Tenka Hybrid inverters work with Tenka Power energy storages to store and use electric power during peak demand or grid outages.



### Modular

The Tenka Power Storage system boasts a modular, easy-to-install design, scaling up to 80 kWh. Supporting multiple operation modes such as peak shaving, increased self consumption and time of use tariffs. Tenka Power Storage offers a versatile energy solution perfectly matching your needs.



### Reliable

Complying with highest quality and safety standards, the Tenka Power Storage series features highly reliable, IP65-certified high-voltage batteries for indoor and outdoor installation. A sophisticated Battery Management System monitors and controls performance, ensuring safety, efficiency and long-term operation.



### Installation & Monitoring

Tenka Power Storage series emphasizes user convenience with 24/7 online monitoring, providing real-time insights into energy production and consumption data. Seamless integration with Tenka Power Cloud App and Tenka hybrid inverters offering easy operation and maintenance.

## Tenka Power Storage - Main benefits



### Easy expansion

Stackable and expandable up to 80 kWh (8 modules per unit, 4 units in parallel)



### Plug & Play installation

Quick and easy plug and play installation



### Multi operation modes

Peak shaving, self consumption and time of use tariffs



### IP-65 Rating

IP65-rated design for reliable indoor and outdoor use



### Light weight

Compact and light weight design with just only 30 kg per battery pack



### Highest Safety standards

4 level safety protection and Lithium iron phosphate cell technology

## Tenka Power Charger



### Tenka Power Charger - Overview



**Tenka Power Charger MAX**

1-phase: 7.4 kW (7,5 m cable)  
Art. Nr.: 4103020000



**Tenka Power Charger MAX**

3-phase: 11 kW (7,5 m cable)  
Art. Nr.: 4103020001



**Tenka Power Charger MAX**

3-phase: 22 kW (7,5 m cable)  
Art. Nr.: 4103020002

## Revolutionary AC charging for electric vehicles

At Tenka Power, we are committed to a sustainable future. The advanced 1- and 3-phase Tenka Power Charger AC wallboxes combine aesthetic design with state-of-the-art technology. Experience a safe and smart charging experience at home. The sleek Tenka Power charging stations have numerous features such as RFID / NFC authentication, automatic phase detection and dynamic load balancing, making charging your electric vehicle easier than ever. Tenka Power AC chargers comply with the European IEC 61851-1 and CE standards and are suitable for unrestricted indoor and outdoor use thanks to protection class IP65.



### Reliable

All Tenka Power AC-EV chargers are built to last and comply with protection class Ip65 for indoor and outdoor use. With an IK10 protection rating and double-layered covers, they offer maximum protection. All Tenka Power EV chargers come with a 3-year product warranty for a reliable and safe investment



### Safe

Tenka Power Charger chargers comply with the European IEC 61851-1 and CE standards. Tenka Power EV chargers have integrated DC 6mA residual current protection and built-in PEN fault detection. Tenka Power AC chargers support RFID / NFC authentication and have an internal WIFI/BLE hotspot



### Smart

All Tenka Power AC EV chargers communicate with the Tenka Power Cloud via WIFI / BLE or optional 4G. The intelligent charging app enables control and 24/7 system monitoring. The app offers numerous functions such as scheduled or off-peak charging, charging in solar PV or eco mode and adjustable charging power

### Tenka Power Charger - Main benefits



### Innovative design

Robust and durable Housing in the colour black



### Simple installation

Quick installation & commissioning with the Tenka Power Cloud app



### Safe

Conform to the European IEC 61851-1 and CE standards



### Indoor & Outdoor

IP65 protection class, for indoor and indoor and outdoor use



### Smart

WIFI/BLE connectivity. Numerous functions available



### User-friendly

RFID / NFC authentication, automatic phase detection, dynamic load distribution

## Tenka Power Logger



## Capture powerful insights with our Tenka Power Logger

Integrating the Tenka Power Logger with your solar inverter enhances solar energy management. It continuously monitors the inverter's performance, quickly identifying faults to reduce maintenance downtime.

With detailed energy analysis, users can optimize consumption patterns. Historical data storage aids in trend analysis, helping with long-term performance assessments. This logger is vital for efficient system management, maintenance planning, and ROI assessment of solar energy systems, enhancing real-time monitoring and long-term system efficiency.



### Versatile communication

The Tenka Power Logger supports 3 RS485 ports and Ethernet for connecting energy meters and other equipment. Serving as the communications hub for Tenka inverters, it sends PV system data to the Tenka Power Cloud via LAN or WLAN, ensuring continuous monitoring and performance overview.



### Manage up to 80 devices

Capable of connecting with up to 80 units, including PV and hybrid inverters, the Tenka Power Logger efficiently sends data to the Tenka Power Cloud for remote monitoring. This streamlined process offers a comprehensive, accessible, and functional solution for real-time data monitoring.



### User-Friendly Installation

Featuring an intelligent controller with multiple energy management strategies, including a 0-export limitation function, the Tenka Power Logger allows effective regulation of energy exports. This design ensures efficient control, enhancing performance and adaptability, while promoting sustainable energy use.

## Tenka Power Logger - Overview



## Tenka Power Logger

Connection: up to 80 devices  
Art. Nr.: 6104020000

## Tenka Power Logger - Main benefits



### Extensive Connectivity

Connect 80 devices via RS485 and Ethernet



### Seamless Installation

Automatic Modbus address distribution



### Web-Based Monitoring

Built-in Web server for browser access



### Easy Operations

Inverter settings and firmware updates



### Remote Maintenance

Optimized OPEX via remote plant maintenance



### Power Control

Active and reactive power management

## Tenka Power Guard 2-2



## The benchmark in PV-System safety

The Tenka Power Guard 2-2 DC junction box with integrated type 1 and 2 overvoltage surge protection is a high-quality solution for protecting solar systems equipment against any dangerous overvoltage such as direct and indirect lightning strikes or transient overvoltages.

This solution enables the simple connection of two independent MPP trackers and up to a maximum of four PV strings to the inverter. Tenka Power Guard 2-2 helps you to protect your investment and optimizes the performance of your solar system.



### System Compatibility

The Tenka Power Guard is compatible with a wide range of inverters and solar modules. Featuring 1.100 Volt, connections for two independent MPPT trackers, each supporting up to two strings, offering a flexible and safe solution for any system configurations, maximizing overall system safety.



### Surge Protection

Tenka Power Guard provides superior protection for your system with integrated Type 1+2 surge protection. It effectively guards against damages caused by overvoltages resulting from direct and indirect lightning strikes. Not just only protecting your PV-system but your entire home.



### Robust Design

The Tenka Power Guard 2-2 impresses with its robust Ip65 polycarbonate housing and high impact resistance (Ik10), making it exceptionally durable. The transparent window allows easy monitoring for simple maintenance and continuous observation of built-in surge protection devices.

## Tenka Power Guard 2-2 - Overview



## Tenka Power Guard 2-2

2 MPPT, up to 4 strings  
Art. Nr.: 6301030000

## Tenka Power Guard 2-2 - Main benefits



### Universal Compatibility

Suitable for all common inverters and solar modules



### DC junction Box

For photovoltaic systems up to 1,100 V DC and 40 A



### Surge Protection Type 1+2

Quick and simple surge protection implementation



### Complete Installation Kit

Includes all necessary mounting and connection accessories.



### System design flexibility

supporting 2 independent MPPT trackers up to 4 PV strings



### Easy O&M

Transparent window for checking surge protector status

## Tenka Power Dongle 4G



## Tenka Power Dongle 4G - Overview



### Tenka Power Dongle 4G

Connection: 4G  
Art. Nr.: 6103020000

## Over the air cellular communication

Tenka Power innovative 4G Dongle enhances solar installation monitoring, offering an easy way to track inverter data. This user-friendly device supports up to 5 devices, and provides 24/7 real-time energy production data of your PV-system through Tenka Power Cloud App.

Ip66 protection rating allows unrestricted indoor and outdoor use ensuring a stable connection in all weather conditions. Dongle mounting is tool-free and commissioning is done easy with the Tenka Power Cloud App.



### Compact and robust design

Tenka Power 4G Dongle with Micro-SIM card comes in a compact size of just 154 x 50 x 33 mm and a robust IP66 waterproof design ensuring reliable 24/7 solar monitoring also in harsh weather conditions. Tenka Power 4G Dongles perfectly work together with Tenka Power Cloud App.



### Intelligent Monitoring

Tenka Power 4G Dongles seamlessly connect to Tenka Power App for simple 24/7 monitoring of your PV system. Supporting up to five devices, it provides real-time photovoltaic data on your smartphone. Easy commissioning with QR code streamlining the installation process to make it efficient and user-friendly.



### Simple communication

Emphasizing simplicity Tenka Power 4G Dongles offer a plug and play tool-free installation. Simply plug into your inverter and start the setup process with Tenka Power Cloud App. This underscores our commitment to providing advanced technology, ensuring a seamless experience for both users and installers.

## Tenka Power Dongle 4G - Main Benefits



### Supports 5 Devices

Tenka Power 4G Dongle manages up to 5 devices



### Cellular Technology

Connects using high-speed cellular technology



### Easy Monitoring

24/7 monitoring through Tenka Power Cloud App



### Maximum Protection

IP66-rated for reliable indoor and outdoor use



### Plug and Play

Compatible with a wide range of Tenka Power inverters



### Automatic Uploads

Automatic data uploads once connected

## Tenka Power Meter



## Advanced Multi-Phase Electricity Metering

The Tenka Power Meter is both a single-phase and three-phase multifunction 100A direct fed DIN rail mounted electricity meter with built in Modbus and Pulsed outputs. It can measure and display the characteristic of 1p2w ,3p3w and 3p4w supplies, with a user-friendly menu navigation and highly visible LCD display.

Tenka Power Meter connects automatically per plug & play and ensures precision accuracy Class 0.5 for versatile and reliable measuring capabilities.



### Versatile Measuring Capabilities

The Tenka Power Meter supports both single-phase and three-phase configurations, suitable for a variety of installations including residential, commercial, and industrial settings. It measures 1p2w, 3p3w, and 3p4w supplies with ease, making it adaptable to diverse electrical environments.



### Precision and Reliability

With Class 0.5 accuracy, the Tenka Power Meter offers precise and dependable readings essential for energy management and billing purposes. It directly measures up to 100A in three-phase systems and supports 1/5A input CTs, ensuring accuracy for any scenarios.



### User-Friendly Design

The Tenka Power Meter features an intuitive menu and clear LCD display for hassle-free operation. Its built-in Modbus and Pulsed outputs allow easy integration into building management systems. Tenka Power Meters DIN rail-mounted design simplifies installation.

## Tenka Power Meter - Overview



### Tenka Power Meter

Single and three phase measuring  
Art. Nr.: 6204020000



### Tenka Power Meter + CT

Tenka Power Meter + 3 x CT 120 A  
Art. Nr.: 6206020000



### Tenka Power Meter + CT

Tenka Power Meter + 3 x CT 300 A  
Art. Nr.: 6206020000

## Tenka Power Meter - Main benefits



### Modbus interface

Built-in Modbus and pulsed outputs for connectivity



### Precision Accuracy

Ensures Class 0.5 accuracy for reliable readings



### Versatility

Supports both single and three-phase systems and Ct's



### LCD Display

Easy-to-read, real-time energy data display



### CT Input Support

Supports 1/5A input CTs for enhanced flexibility



### Export control

Efficiently regulate and monitor energy export

# Tenka Commercial and Industrial - All from a single source!

## Tenka Power Center Commercial - 3 phase



**Tenka Power Center 5000 PRO**  
15, 17, 20 kW



**Tenka Power Center 5000 MAX**  
15, 17, 20, 25, 30 kW

- ✓ Battery ready
- ✓ 3-phase Emergency Power



- ✓ Battery ready
- ✓ 1-phase Emergency Power



**Tenka Power Center 7000**  
25, 27, 30, 33, 36, 40 kW



**Tenka Power Center 7100**  
45, 50, 60 kW



**Tenka Power Center 7500**  
80, 100, 110 kW

## Tenka Power Charger



**Tenka Power Charger MAX**  
7.4 kW

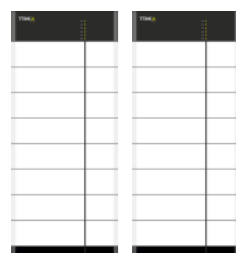


**Tenka Power Charger MAX**  
11 kW

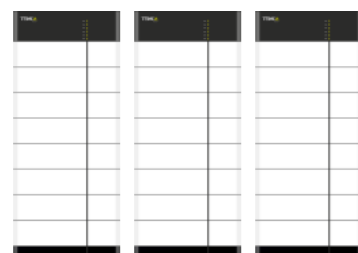


**Tenka Power Charger MAX**  
22 kW

## Tenka Power Storage PV-Battery



**Tenka Power Storage**  
40 kWh

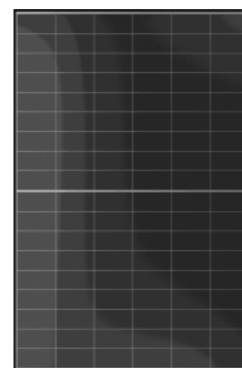


**Tenka Power Storage**  
60 kWh

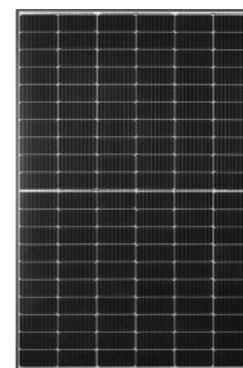


**Tenka Power Storage**  
80 kWh

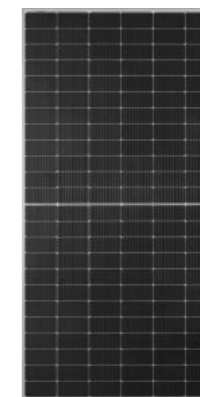
## Tenka Solar PV-Modules



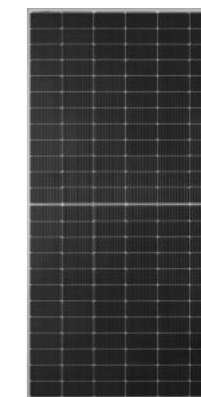
**Tenka Orion III Plus**  
Black Frame, max. 465 Watt



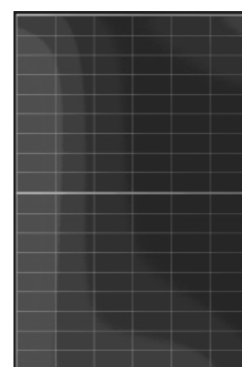
**Tenka Orion III Plus**  
Bifacial, max. 465 Watt



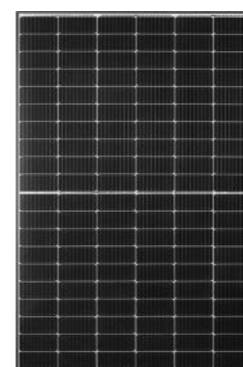
**Tenka Orion VII Plus**  
Silver Frame, max. 605 Watt



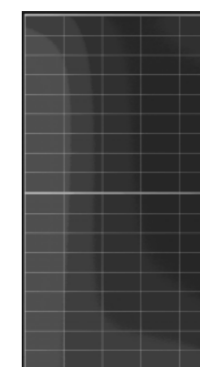
**Tenka Orion VIIs**  
Bifacial, max. 635 Watt



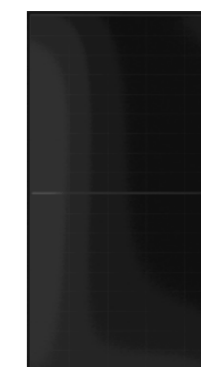
**Tenka Orion III Ultra**  
Black Frame, max. 485 Watt



**Tenka Orion III Ultra**  
Bifacial, max. 485 Watt



**Tenka Orion IV Ultimate**  
Black Frame, max. 465 Watt



**Tenka Orion IV Ultimate**  
Full Black, max. 465 Watt

## Tenka Power Safety, Communication & Monitoring Devices



**Tenka Power Dongle 4G**  
4G/LTE up to 5 devices



**Tenka Power Guard 2-2**  
2 MPPT SPD T1 & T2



**Tenka Power Meter**  
1/3-phasier Stromsensor



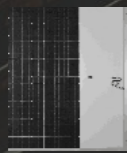
**Tenka Power Logger**  
LAN/WLAN, RS 485, Ethernet



**Tenka Power Cloud**  
App (Apple & Android), Web Portal



# Tenka power ecosystem for utility scale scenarios



01 Tenka PV-Panels



02 Tenka Power Center

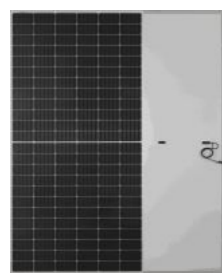


03 Tenka Power Cloud

## Tenka Orion Serie VII Plus



## Tenka Orion Serie VII Plus - Overview



### Tenka Orion Serie VII Plus

Leistung: 590, 595, 600, 605 Watt  
 Ausführung: Silver Frame  
 Art. Nr.: 1401017000

## When performance matters

Tenka Solar Orion VII Plus solar modules set new standards in solar power generation thanks to N-Type TOPCon technology, a peak output of up to 605 watts and a module efficiency of 23.41%. They enable cost savings of up to 15% for installation, substructure and labour. Thanks to their high resistance to extreme weather conditions and a guaranteed output of 87.4% after 30 years, they ensure long-lasting, constant energy production.



### Top performance

The Orion VII Plus solar modules increase the efficiency of any PV system thanks to the patented Nanotech technology. Tenka Solar modules offer an impressive output of 605 watts and a module efficiency of 23.41%. This maximises solar power production and optimises energy yield, making this PV module the ideal choice



### High yield reliability

Thanks to their robust design, the modules can withstand extreme weather conditions and mechanical loads. A low temperature coefficient of just -0.29%/°C ensures improved performance at high temperatures. 30-year product guarantee and 30-year performance guarantee ensure long-term investment security



### Highest efficiency

Tenka Solar Orion solar modules capture more light than conventional solar modules, reducing temperature-related power losses. This results in higher module efficiency and higher output per square metre, making them an optimal choice for maximising energy production and yields

## Tenka Orion VII Plus - Main benefits



### 23.41% module efficiency

23.41% module efficiency and 605W peak power



### Power 605 watts

Maximum output of 605 watts



### Nanotech coating

Patented Tenka Nanotech coating for improved light absorption



### Durability

Low degradation, optimised long-term performance



### Product guarantee

30-year product guarantee for maximum investment security



### Performance guarantee

30-year performance guarantee on 87.4% performance guaranteed

\* Minimum order quantity 1 Container (620 Pcs.)

## Tenka Orion Serie VIIs



## Bi-facial technology and maximum output

Tenka Solar Orion VIIs solar modules set new standards for bifacial PV modules thanks to N-Type TOPCon technology and a peak output of up to 635 watts as well as a module efficiency of 23.51%. They enable cost savings of up to 25% for installation, substructure and labor. Thanks to their high resistance to extreme weather conditions and a guaranteed output of 87.4% after 30 years, they ensure long-lasting, constant energy production. As a bi-facial glass-glass variant, these glass/glass modules are ideal for use in commercial and agricultural PV projects



### Peak performance

Tenka solar modules increase the efficiency of any PV system thanks to the patented Nanotech technology and offer an impressive output of 635 watts and a module efficiency of 23.51%. This maximizes solar power production, optimizes energy yield and makes this PV module the ideal choice for commercial and agricultural PV projects



### High yield reliability

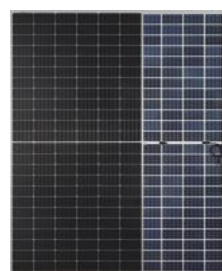
Thanks to their robust design, the modules can withstand extreme weather conditions and mechanical stress. A low temperature coefficient of just -0.29%/°C ensures improved performance at high temperatures. 30-year product guarantee and 30-year performance guarantee ensure long-term investment security



### Highest efficiency

Tenka Orion VII's solar modules capture more light than conventional modules thanks to the bifacial rear power boost. This results in a higher module yield and a higher output per square meter, increasing the performance and efficiency of the entire system. Ideal for commercial and agricultural PV projects

## Tenka Orion Serie VIIs - Overview



### Tenka Orion Serie VIIs

Power: 620, 625, 630, 635 Watt  
 Model: Bi-facial, Silver Frame  
 Art. Nr.: 1401017000

## Tenka Orion VIIs - Main benefits



**23.51% module efficiency**  
 23.51% module efficiency and 635W peak power



**Power 635 watts**  
 Maximum 635 watts and bifacial power boost



**Nanotech coating**  
 Patented Tenka Nanotech coating for improved light absorption



**Durability**  
 Low degradation, optimised long-term performance



**Product guarantee**  
 30-year product guarantee for maximum investment security



**Performance guarantee**  
 30-year performance guarantee on 87.4% performance guaranteed

\* Minimum order quantity 1 Container (620 Pcs.)

## Tenka Orion Serie IX



## When power exceeds all bounds

Orion® technology is characterized by a nanotech coating that allows the solar module to work homogeneously with the entire range of visible light, enabling a higher absorption rate than standard panels of the same size.

The Orion® nanotech coating is composed of thousands of tiny prisms whose characteristics allow the photon flow to be ordered in a more efficient way, guaranteeing a superior capacity to convert light into usable energy; a unique process that brings several important benefits.



### Peak Efficiency

Orion® solar modules capture more light than conventional modules, reducing temperature-related power loss. This results in higher module efficiency and a greater power output per square meter, making them an optimal choice for maximizing energy production.



### Reliability Enhanced

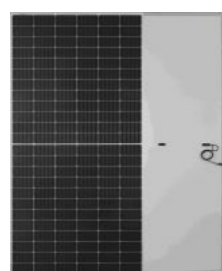
The nanotech coating on Orion® modules acts as a protective shield, significantly reducing degradation over the module's lifetime. This enhancement leads to increased longevity, ensuring sustained performance and reliability for many years.



### Superior Durability

Orion® modules are known for their low degradation rates—less than 1% in the first year and under 0.4% in following years. With a low temperature coefficient and a positive power tolerance of 0 to +3%, they guarantee consistent energy output.

## Tenka Orion Serie IX - Overview



### Tenka Orion Serie IX

Model: HC-Mono  
Art. Nr.: 1301019000

## Tenka Orion Serie IX - Main benefits



### High Modul Efficiency

690Wp increased solar absorption with Dual Glass option



### Optimized BOS

Cost savings in mounting, cabling, and labor of up to 15%



### Robust characteristics

Withstand high wind pressure and heavy snow loads



### Lasting Durability

Low degradation, optimized Performance



### Extended Warranty

Guaranteed 30-year product quality



### Power Assurance

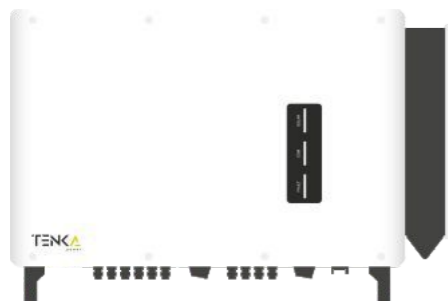
Consistent power guaranteed for 30 years

\* Minimum order quantity 1 Container (620 Pcs.)

## Tenka Power Center 7500 - Three Phase Industrial Inverter



## Tenka Power Center 7500 - Overview



### Tenka Power Center 7500

Range: 80, 100, 110 kW  
Art. Nr.: 2201027500

## State of the art technology for high energy yields

The Tenka Power Center 7500 series offers highly flexible and robust inverter solutions for commercial and industrial plants with significant energy needs. These units are designed to support businesses in achieving low-carbon goals.

Featuring a compact, award-winning design with IP66 rating, they ensure durability in harsh weather. With up to ten independent MPP trackers and 150% DC/AC ratio oversizing, they offer unparalleled flexibility in system design. Additionally, the integrated shadow management system ensures consistent electricity production, even in partial shade.



### High Power

The Tenka Power Center 7500 series is engineered for power, offering a 16A maximum DC input and 10 MPPTs for optimized energy performance with bi-facial and large-area modules. Ideal for varied residential rooftops, it allows 150% PV array oversizing, catering to diverse design needs and scales.



### Enhanced Control

Featuring 24/7 monitoring, user-friendly setup via the Tenka Power Cloud app, and advanced string-level management, the Tenka Power Center 7500 series also includes the Tenka Ai-Logger for efficient photovoltaic management. These features collectively aid in reducing energy costs effectively.



### Easy Install & Monitor

The Tenka Power Center 7500 is designed for quick, tool-free installation, compatible with a range of panels. Optional internet connectivity, provided by Plug & Play and 4G dongles, enables monitoring up to five inverters through the Tenka Power Cloud App, offering real-time data and system alerts.

## Tenka Power Center 7500 - Main benefits



### Maximum design flexibility

up to 10 MPPTs for versatility in PV system design and layout.



### Fuse-less Design

Reducing BOS and O&M costs



### 150% oversizing

150% PV array oversizing for higher yields



### 32A String Current

32A maximum DC current per MPPT input



### IP-66 Rating

IP66-rated design for reliable outdoor use



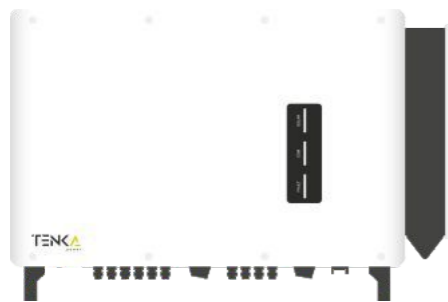
### Arc fault circuit interruptor

AFCI protection reduces fire risk resulting from DC arcs.

## Tenka Power Center 9000 - High voltage Utility String Inverter



## Tenka Power Center 9000 - Overview



### Tenka Power Center 9000

Range: 350 kW  
Art. Nr.: 2201029000

## Multi MPPT String Inverter with 800V AC / 1500V DC

Experience unprecedented power with the Tenka Power Center 9000, the ideal solution for large-scale solar installations. This compact, high-performance inverter seamlessly converts solar energy into grid-compliant AC power, ensuring reliable energy production.

Its intuitive setup via Tenka Power Logger streamlines integration and monitoring. Equipped with multiple MPP trackers and smart cooling technology, it guarantees maximum efficiency making it a powerhouse for sustainable energy production.



### Superior Efficiency

The Tenka Power Center 9000 boasts an impressive peak efficiency of 99.0% and a European efficiency of 98.8%. These high efficiency rates ensure optimal energy conversion, maximizing the output from your solar installation and significantly enhancing return on investment.



### Advanced Connectivity

Equipped with RS485 and Powerline communication, the Tenka Power Center 9000 integrates effortlessly with Power Logger for detailed data management. The system supports WLAN connectivity and an app for easy monitoring and adjustments, providing complete control over your solar energy system.



### Robust Design

Featuring IP66 protection and integrated Type II AC and DC surge protection, the Tenka Power Center 9000 is designed to withstand harsh environments. Its compact size and smart air-cooling system ensure reliable operation with minimal maintenance and noises.

## Tenka Power Center 9000 - Main benefits



### High Efficiency Rates

Achieves up to 99.0% conversion efficiency



### Smart Cooling System

Ensures effective cooling with low noise



### Multiple MPP Trackers

14 independent MPP trackers enhance performance



### Lower LCOE

1500 V DC and 800 V AC reduces installation cost



### Surge Protection Integrated

Type II protection for both AC and DC



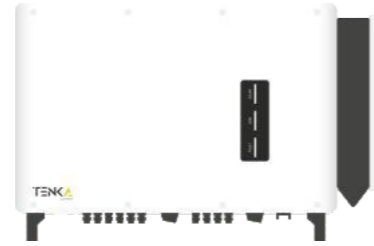
### IP-66 Rating

IP66-rated design for reliable outdoor use

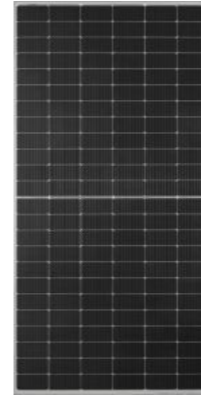
# Tenka Power Utility Scale PV-Solutions



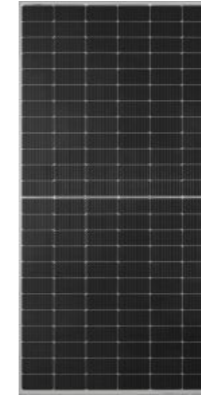
**Tenka Power Center 7500**  
80, 100, 110 kW



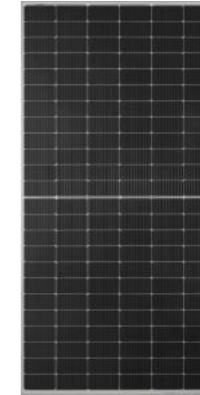
**Tenka Power Center 9000**  
350 kW



**Tenka Orion VII Plus**  
Silver Frame, max. 605 Watt



**Tenka Orion VIIs**  
Bifacial, max. 635 Watt



**Tenka Orion IX**  
Silver Frame, max. 690 Watt

# Tenka Power - PV-Modules line-up

Leistung [Wp]		465	485	605	635	690
<b>Tenka Solar III Plus</b> HC-Mono, Black Frame	 <b>465 Watt</b> 23,27% Efficiency	23,27% Efficiency				
<b>Tenka Solar III Plus</b> Bi-facial, Black Frame	 <b>465 Watt</b> 23,27% Efficiency	23,27% Efficiency				
<b>Tenka Solar IV Ultimate</b> HC-Mono, Black Frame	 <b>465 Watt</b> 23,8% Efficiency	23,8% Efficiency				
<b>Tenka Solar IV Ultimate</b> HC-Mono, Total Black	 <b>465 Watt</b> 23,8% Efficiency	23,8% Efficiency				
<b>Tenka Solar III Ultra</b> Bi-facial Glas / Glas, Black Mesh	 <b>485 Watt</b> 23,76% Efficiency		23,76% Efficiency			
<b>Tenka Solar III Ultra</b> Black Frame	 <b>485 Watt</b> 23,76% Efficiency		23,76% Efficiency			
<b>Tenka Solar VII Plus</b> HC-Mono, Silver Frame	 <b>609 Watt</b> 23,41% Efficiency			23,41% Efficiency		
<b>Tenka Solar VIIs</b> Bi-facial Glas / Glas, Silver Frame	 <b>635 Watt</b> 23,51% Efficiency				23,51% Efficiency	
<b>Tenka Solar IX</b> HC-Mono, Silver Frame	 <b>690 Watt</b> 22,21% Efficiency					22,21% Efficiency







TENKA