TOMMATECH GmbH

GERMAN-based company

OFF-GRID INVERTER

Catalogue

Garching - Münih Manufacturing Facility / Germany

Antalya Manufacturing Facility / Türkiye

Contents

TOMMATECH GmbH

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In an increasingly complex world, we continuously adapt to changes and actively encourage all our partners to embrace our long-term goals and values through goal-oriented communication and a deep mutual understanding of our mission. In this way, we aim to provide a valuable contribution for future generations.

Technology

Vision:

Our vision is to be a leader in the development of advanced solar energy technologies that maximize energy efficiency, protect the ecological balance, restore harmony between humans and nature, and accelerate the global transition to renewable energy in order to achieve the set climate goals.

Mission:

We focus on continuous innovation and research to develop modern solar technology and integrate it efficiently into smart home systems, enabling our customers to benefit from connected and sustainable energy use.

Today:

Many customers are already benefiting from our modern installations, which we have seamlessly integrated into their homes. This optimizes energy consumption, allowing customers to save money immediately and reduce their carbon footprint.

Optimization

"Through intelligent optimization solutions, we achieve the most efficient use of solar energy worldwide, actively supporting the achievement of climate neutralty."

"We are committed to developing and implementing advanced automation and control technologies to optimize energy consumption in households and businesses while significantly reducing operating costs."

Our customers' current energy optimization systems have already achieved significant improvements in emissions.

Manufacturing

We aim to be a leading manufacturer of solar technologies, setting industry standards for quality and sustainability.

We are committed to producing high-quality and innovative solar products that meet the needs of the present while addressing future challenges. Through continuous improvements and investments in our production processes, we strive to maximize efficiency and minimize environmental impact.

Our customers are already benefiting from the advanced solar products manufactured in our state-of-the-art facilities. These products are not only efficient and reliable but also leading in terms of sustainability and environmental protection. The continuous optimization of our production processes guarantees products that are both economically and ecologically advantageous.

Milestones

We are pioneering solar techno- logy that plays a crucial role in contributing to energy indepenence and climate resilience.

We drive transformative change in the global use of solar energy. By developing technologies that enable significant improvements in performance and ease of use, we are setting new standards.

Customers worldwide are using our technology, and together we are accelerating the transition to renewable energy while achieving both economic and ecological benefits.

Automation

To drive the integration of intelligent automation solutions that make the interaction between solar technologies and end users seamless and intuitive.

To develop automation systems that not only operate smoothly but also adapt to consumer needs. These systems aim to optimize energy consumption, enhance operational efficiency, and accelerate the adoption of renewable technologies.

Our customers are enjoying the convenience and efficiency that our intelligent automation solutions bring to their daily lives. These technologies simplify the control of their energy supply, reduce costs, and support the transition to a more environmentally friendly future.

CE ISO SOMPO

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2014

60+

2

Transparency

Vision:

We aim to create an atmosphere of openness where everyone from our customers to our employees feels secure and well-informed.

Mission:

Clear information, no secrets that's our motto. Whether it's about the production of our products or how they function, we keep you constantly updated. We believe that well informed people make better decisions.

Today:

Our customers and partners benefit from our transparent business management. We ensure complete openness at every stage of our processes, from development to product delivery. This practice of open communication allows our stakeholders to make informed decisions and strengthens trust in long-term collaboration with our company.

Experience

We want every interaction with our company to be a positive experience for customers and partners. Our products and services should not only be reliable and innovative but also inspire enthusiasm.

Our goal is to provide each customer and partner with a personalized and valuable experience. With our extensive experience in solar technology, we know what works and we use that knowledge to exceed your expectations and make the transition to sustainable energy easier for you.

Our customers benefit directly from our many years of experience in solar technology. We deliver tailored solutions that are reliable and efficient, supporting every step of the journey toward sustainable energy. Our team ensures a seamless experience through professional advice and assistance.

Commitment

Our vision is to be a leader in the solar industry through our unwavering commitment to quality and sustainability. We strive to improve in every aspect every day from product development to our services.

Our primary goal is to consistently exceed our customers' expectations. We are committed to the highest quality and continuous improvement of our products and services. Our dedication to sustainability and ethical business practices is unwavering and guides all our actions.

Our customers and partners can rely on our strong commitment. We employ innovative and sustainable technologies to ensure that our solutions are not only efficient but also environmentally friendly. Every project is executed with the highest standards of quality and a focus on long-term customer satisfaction.

Home Solution

We aim to transform every home into an eco-friendly energy source. Our vision is to offer advanced solar solutions that are easy to integrate and optimize household energy consumption while contributing to global sustainability.

Our goal is to develop customized solar solutions tailored to the specific needs and conditions of each household. We are committed to providing our custmers with the best combination of efficiency, ease of use, and economic benefit, making the transition to renewable energy simple and appealing.

Our Home Solution products enable customers to meet their energy needs sustainably while saving costs. Homes equipped with our technology benefit from intelligent energy management and a reduced carbon footprint. Our solutions are not only environmentally friendly but also user-friendly, allowing every household to fully harness the advantages of modern solar technology.

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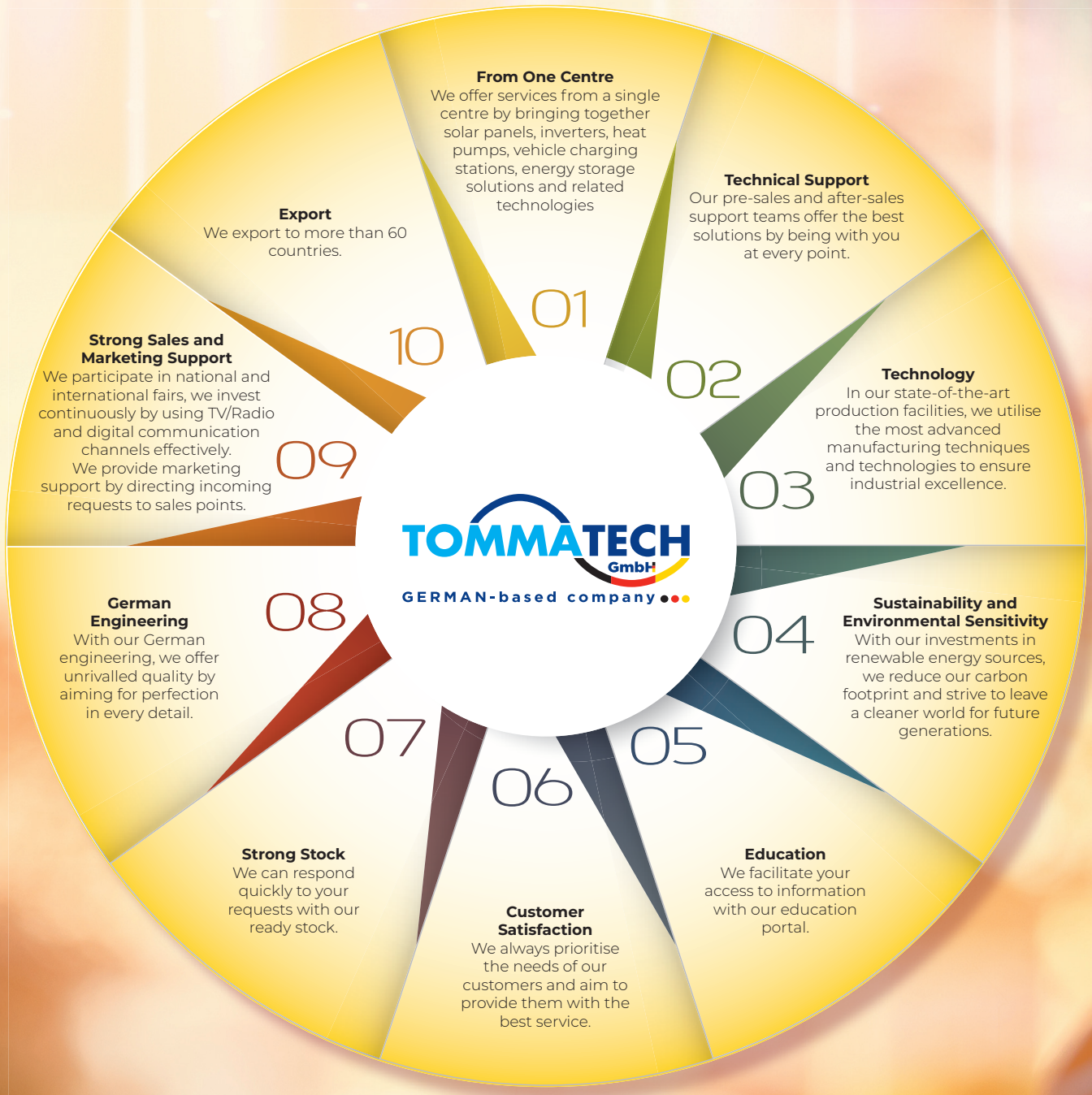

with TommaTech

You are in control!

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OFF-GRİD

New Series

OFG-TT-01-NEW1K-12MF
OFG-TT-02-NMPPT1K-12MF
OFG-TT-03-NEW3K-24MF
OFG-TT-04-NMPPT3K-24MF
OFG-TT-05-NEW5K-48MF
OFG-TT-06-NMPPT5K-48MF

New Pro Series

OFG-TT-PRO1.2K-WIFI-12MF
OFG-TT-PRO3K-WIFI-24MF
OFG-TT-PRO5K-WIFI-48MF

Plus Series

OFG-TT-05-MPLUS4K-24MF
OFG-TT-08-MPLUS7K-48MF-P
OFG-TT-08-11K-MPPT-48MF

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HYBRID

LV F Series

INV-HYB-48V-15K-F-TF
INV-HYB-48V-20K-F-TF

CHARGE CONTROLLERS

AU Series

SSC-05-PWM60-12-24-2USB
SSC-21-PWM45-24LCD2USB

SCC Series

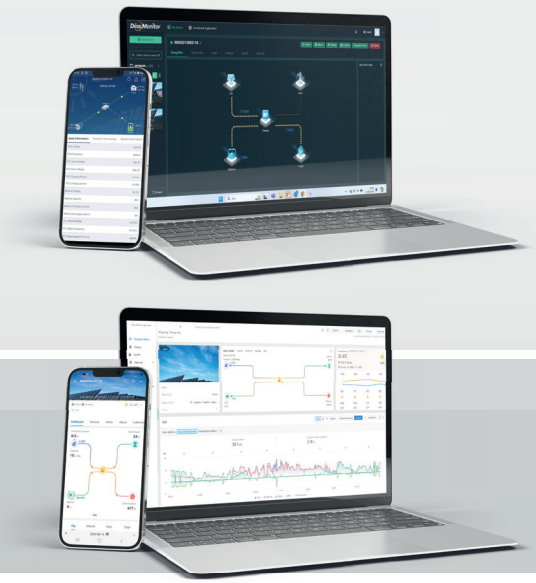
SSC-19-MPPT60-12-24-48

ENERGY MANAGEMENT SYSTEM

Portal

WatchPower

SolarMan



WHAT IS OFF-GRID INVERTER?

It is a device designed to feed the electrical energy generated from solar panels to the loads of the house where there is no grid connection.

HOW DOES AN OFF-GRID INVERTER WORK?

The Off-Grid inverter basically works on the principle of the inverter circuit inside. DC electrical energy generated from solar panels is converted into AC electrical energy used in homes or workplaces thanks to this inverter circuit.

WHY OFF-GRID INVERTER?

Thanks to the battery connection, it can store energy; it provides uninterrupted energy by using the power in the battery in overcast weather or in the evening. In this way, regardless of the state of the grid, it can continue to obtain electricity from the sun.

WHERE TO USE OFF-GRID INVERTER?

It is a preferred alternative in systems with grid electricity and self-consumption, in areas where grid electricity is not available or where grid line installation is costly and power outages are frequent.

WHO USES OFF-GRID INVERTER?

Off-grid solar inverters are widely used by individuals and organisations who want to meet their energy needs without being connected to the electricity grid. These inverters convert direct current (DC) generated by solar panels into alternating current (AC), enabling electrical devices to operate.

OFF-GRID INVERTER WORKING PRINCIPLE

In the Off-Grid system, the DC power generated from the solar panel or battery is transmitted to the inverter. The inverter reacts to sudden changes in its direction with the capacitor and inductor circuit, and in this process, the current rises and falls, creating a sinusoidal waveform. The generated waveform can be a pure or modified waveform.

ADVANTAGES OF OFF-GRID INVERTER

- Off-Grid systems allow you to be completely independent in terms of energy, and this independence can also be considered as a security factor.
- The biggest advantage is that it offers a 100% independent energy source. You do not need to pay for electricity costs and you are completely protected from increasing energy prices.
- Since you do not need a grid connection, you are not affected by power outages.
- The installation time of the systems is very short; thus, it becomes ready for use quickly.
- It is very easy to install, long and complex assembly processes are not required.
- Off-Grid systems offer the opportunity to expand according to your needs in the future.
- You do not need an extra generator, so you save additional costs.

  As with all renewable energy systems, Off-Grid systems are environmentally friendly; they do not emit gases.
- In areas where there is no grid electricity, it can be integrated with batteries, providing a solution independent of power outages.
- Off-Grid systems are long-lasting and require only one installation cost; there is no obligation to pay any invoice afterwards.
- Maintenance is very easy and only periodic general maintenance is sufficient; it does not require frequent maintenance.

OFF- GRID NEW SERIES INVERTERS

1kW - 3kW - 5kW

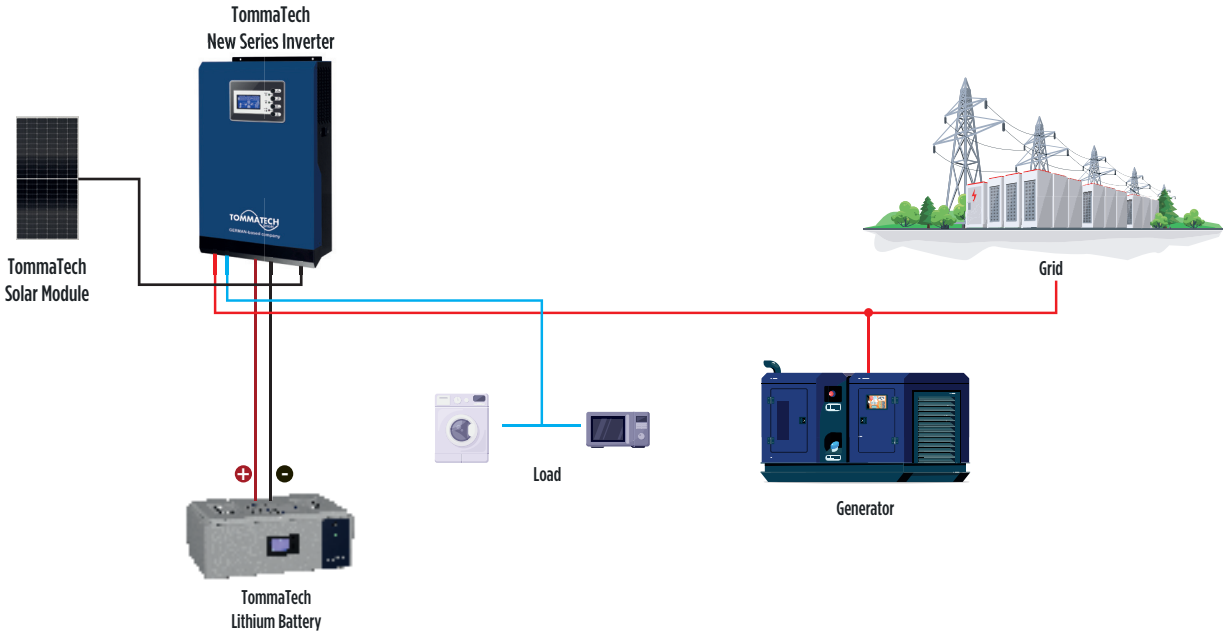
New

PWM and MPPT winding controlled options provide the opportunity to choose the most suitable device for your needs.

Product Features

- High Efficiency
- Energy Storage Solutions
- Dust Prevention Kit
- 1 Phase AC Output
- Generator Supported
- Full Sine Wave Output
- Easy Installation

Connection Diagram



MODEL	TT-NEW1K	TT-NEW1K/MPPT	TT-NEW3K	TT-NEW3K/MPPT	TT-NEW5K	TT-NEW5K/MPPT
Maximum Power	1000 / 1000		3000 / 3000		5000 / 5000	
Parallel Array Capacity	Hayır					
AC INPUT						
Voltage [V AC]	230					
Selectable Voltage Range [V AC]	170-280 (For Personal Computers) ; 90-280 (For household appliances)					
Nominal Frequency [Hz]	50 / 60 (Auto Detection)					
DC INPUT						
Maximum Input Current [A]	50	18	50	18	50	50
Maximum Short Circuit Current [A]	50	22	50	22	50	60
MPPT Voltage Range [V]	N/A	17 ~ 80	N/A	30 ~ 80	N/A	60 ~ 115
Number Of MPPT	N/A	1	N/A	1	N/A	1
MPPT Array Input Number	N/A	1	N/A	1	N/A	1
OUTPUT						
AC Voltage Regulation (Battery Mode [V AC]	230 ± 5%					
Instantaneous Voltage Power [VA]	2000		6000		10000	
Efficiency (Peak) [%]	90 ~ 93					
Automatic Switchover Time [ms]	10 (For Personal Computers) ; 20 (For household appliances)					
Wave Shape	Pure Sine Wave					
BATTERY						
Battery Voltage [V]	12		24		48	
Variable Charge Voltage [V]	13.5		27		54	
Over Charge Protection [V]	16		33		63	
CHARGING CONTROLS & AC CHARGING						
Solar Charger Type	PWM	MPPT	PWM	MPPT	PWM	MPPT
Max. PV Array Open Circuit Voltage [V]	55	102	80	102	105	145
Max. PV Array Power [W]	600	500	1200	1000	2400	3000
MPPT Operating Voltage Range [V]	N/A	17 ~ 80	N/A	30 ~ 80	N/A	60 ~ 115
Max. Solar Charging Current [A]	50	40	50	40	50	60
Max. AC Charging Current [A]	20		25		60	
Max. Charging Current [A]	50	60	70	60	110	120
PHYSICAL FEATURES						
Depth x Width x Height [mm]	88 x 225 x 320		100 x 285 x 334		100 x 300 x 440	
Net Weight [kg]	4.4	4.4	6.3	6.5	8.5	9.7
Communication Interface	USB/RS232					
ENVIRONMENTAL FEATURES						
Relative Humidity [%]	5 to 95 Relative Humidity (Non-condensing)					
Operating Temperature [°C]	-10 ~ 50					
Storage Temperature [°C]	-15 ~ 60					

OFF-GRID NEW PRO SERIES INVERTERS

1.2kW - 3kW - 5kW

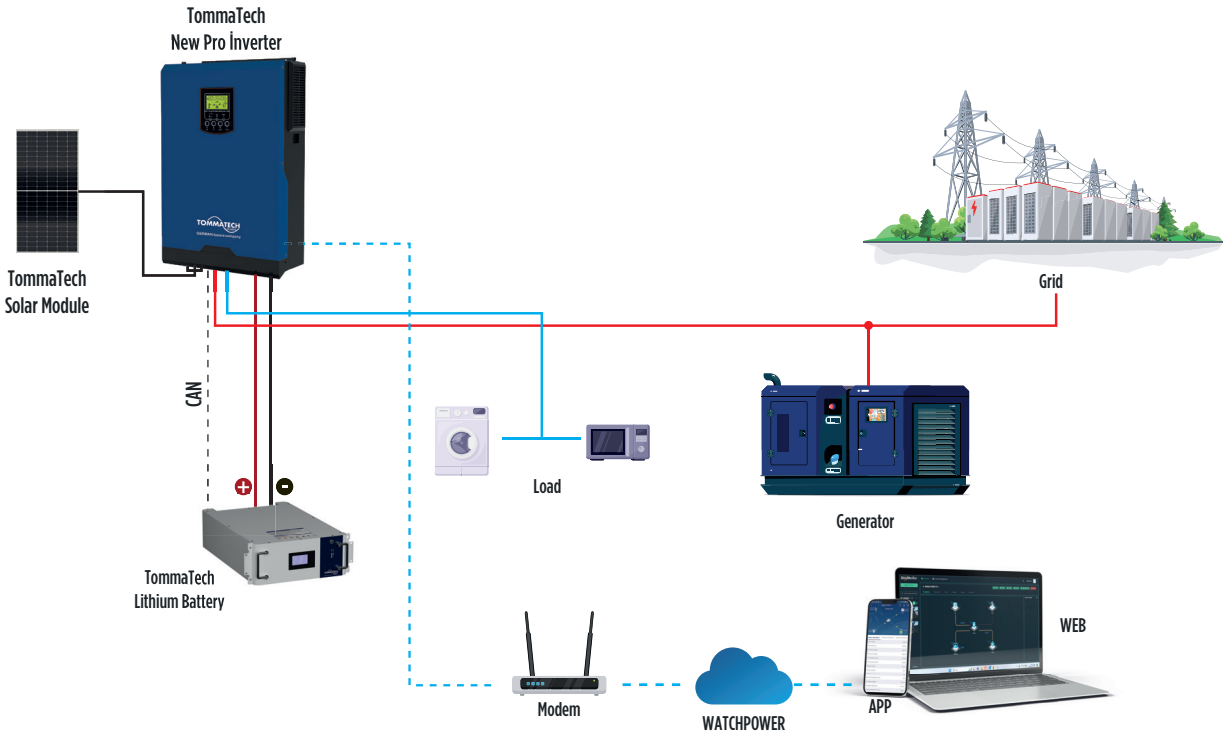
New Pro

High PV input power, battery-independent design and dust-proof, easy-to-maintain options allow you to choose the device that suits your needs

Product Features

- High Efficiency
- Energy Storage Solutions
- Dust Prevention Kit
- 1 Phase AC Output
- Battery Independent
- PV High Voltage
- Generator Supported
- Full Sine Wave Output
- Easy Installation
- Remote Monitoring
- BMS Communication

Connection Diagram



MODEL	OFG-TT-PRO1.2K-WIFI-12MF	OFG-TT-PRO3K-WIFI-24MF	OFG-TT-PRO5K-WIFI-48MF
Maximum Power [VA/W]	1200 / 1200	3000 / 3000	5000 / 5000
AC INPUT			
Voltage [V AC]	230		
Selectable Voltage Range [V AC]	170-280 (For Personal Computers) ; 90-280 (For household appliances)		
Nominal Frequency [Hz]	50 / 60 (Auto Detection)		
OUTPUT			
AC Voltage Regulation (Battery Mode [V AC]	230 ± 5%		
Instantaneous Voltage Power [VA]	2400	6000	10000
Efficiency (Peak) [%]	90 ~ 93		
Automatic Switchover Time [ms]	10 (For Personal Computers) ; 20 (For household appliances)		
Wave Shape	Pure Sine Wave		
BATTERY			
Battery Voltage [V]	12	24	48
Variable Charge Voltage [V]	13.5	27	54
Over Charge Protection [V]	16	32	63
CHARGING CONTROLS & AC CHARGING			
Solar Charger Type	MPPT		
Max. PV Array Open Circuit Voltage [V]	350	450	500
Max. PV Array Power [W]	2000	3000	5000
MPPT Operating Voltage Range [V]	60~300	60~400	120~450
Max. Solar Charging Current [A]	80A		100A
Max. AC Charging Current [A]	100A		
Max. Charging Current [A]	13		18
PHYSICAL FEATURES			
Depth x Width x Height [mm]	90 x 288 x 357	110 x 288 x 390	120 x 300 x 440
Net Weight [kg]	6.5	7.2	10
Communication Interface	RS232/RS485, Optional WiFi		
ENVIRONMENTAL FEATURES			
Relative Humidity [%]	5 ~ 95 Relative Humidity (Non-condensing)		
Operating Temperature [°C]	-10 ~ 50		
Storage Temperature [°C]	-15 ~ 60		

OFF-GRID PLUS SERIES INVERTERS

3.6kW - 7.2kW - 11kW

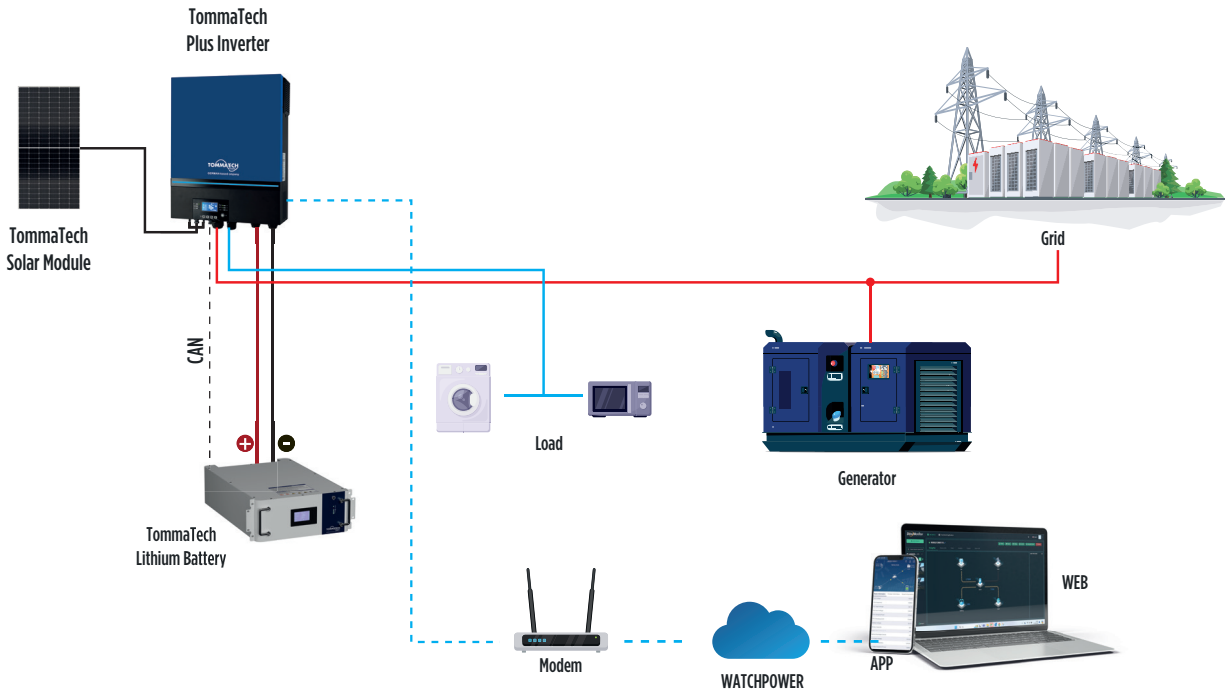
Plus

High PV input power, protected against dust, easy to maintain, suitable for parallel connection options and built-in Wi-Fi allows you to choose the device that suits your needs.

Product Features

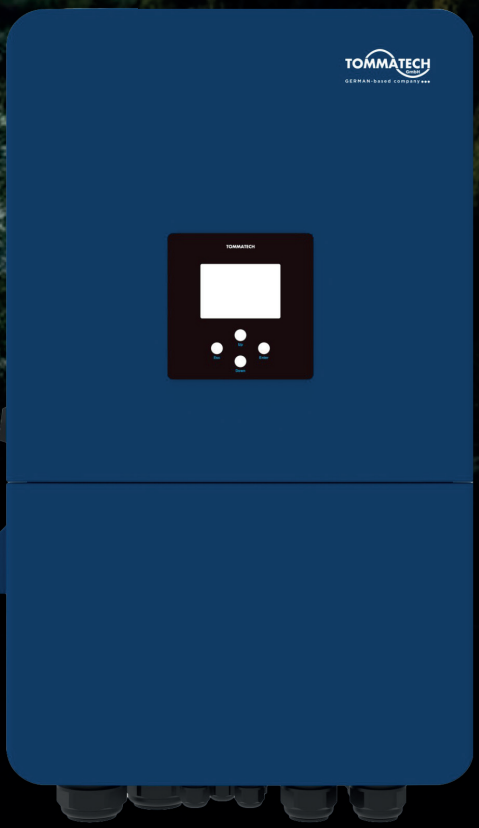
- PV High Voltage
- High Efficiency
- Energy Storage Solutions
- Remote Monitoring
- 1 Phase AC Output
- Battery Independent
- Optional 100 W DC Çıkış (DC)
- Generator Supported
- Expandable System
- Full Sine Wave Output
- Easy Installation
- BMS Communication (BMS)

Connection Diagram



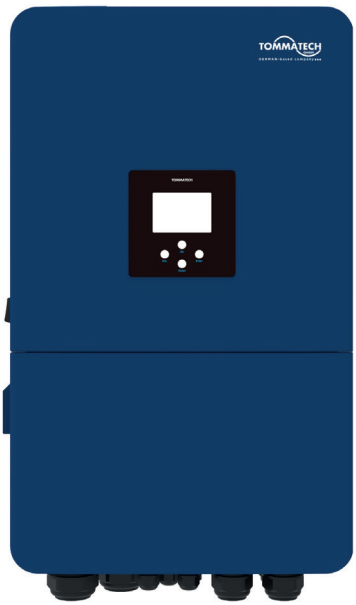
MODEL	TT-3.6K-HV-24V-MPPT	TT-7.2K-PLUS-HV-48V-MPPT	TT-11K-PLUS-HV-48V-MPPT
Maximum Power [VA/W]	3600 / 3600	7200 / 7200	11000 / 11000
Parallel Capability	No	Yes, 6 Pieces	
AC INPUT			
Voltage [V AC]	230		
Selectable Voltage Range [V AC]	170-280 (For Personal Computers) 90-280 (For household appliances)		
Nominal Frequency [Hz]	50 /60 (Auto Detection)		
DC INPUT			
Maximum Input Current [A]	18	18	18
Maximum Short Circuit Current [A]	22	22	22
MPPT Range @ Operating Voltage [V DC]	120 ~ 450	90 ~ 450	
Number Of MPPT	1	2	2
MPPT Array Input Number	1	1	1
OUTPUT			
AC Voltage [V AC]	230 ± 5%		
Surge Power [VA]	7500	15000	22000
Maximum Eciency [%]	90 - 93		
Transfer Time [ms]	15 (For Personal Computers) 20 (For household appliances)	10 (For Personal Computers) 20 (For household appliances)	
Waveform	Pure Sine Wave		
No Load Power Consumption [W]	< 45	< 70	
BATTERY			
Battery Voltage [V DC]	24	48	
Floating Charge Voltage [V DC]	27	54	
Overcharge Protection [V DC]	33	66	63
CHARGING CONTROLS & AC CHARGING			
Solar Charger Type	MPPT		
Max. PV Array Open Circuit Voltage [V]	4000	8000 (4000 x 2)	11000 (5500 x 2)
Max. PV Array Power [W]	120 ~ 450	90 ~ 450	
MPPT Operating Voltage Range [V]	500		
Max. Solar Charging Current [A]	80		150
Max. AC Charging Current [A]	80		150
Max. Charging Current [A]	80		150
PHYSICAL FEATURES			
Depth x Width x Height [mm]	432.5 x 147.4 x 553.6		
Net Weight [kg]	14.1		18.4
Communication Interface	USB/RS232/RS485/Wi-Fi/Dry Contact		
ENVIRONMENTAL FEATURES			
Relative Humidity [%]	5 ~ 95 Relative Humidity (Non-condensing)		
Operating Temperature [°C]	-10 ~ 50		
Storage Temperature [°C]	-15 ~ 60		
STANDART			
Compatibility	CE		

Sustainable Living
Renewable Energy



TRIO HYBRID LV F SERIES INVERTERS

15kW - 20kW



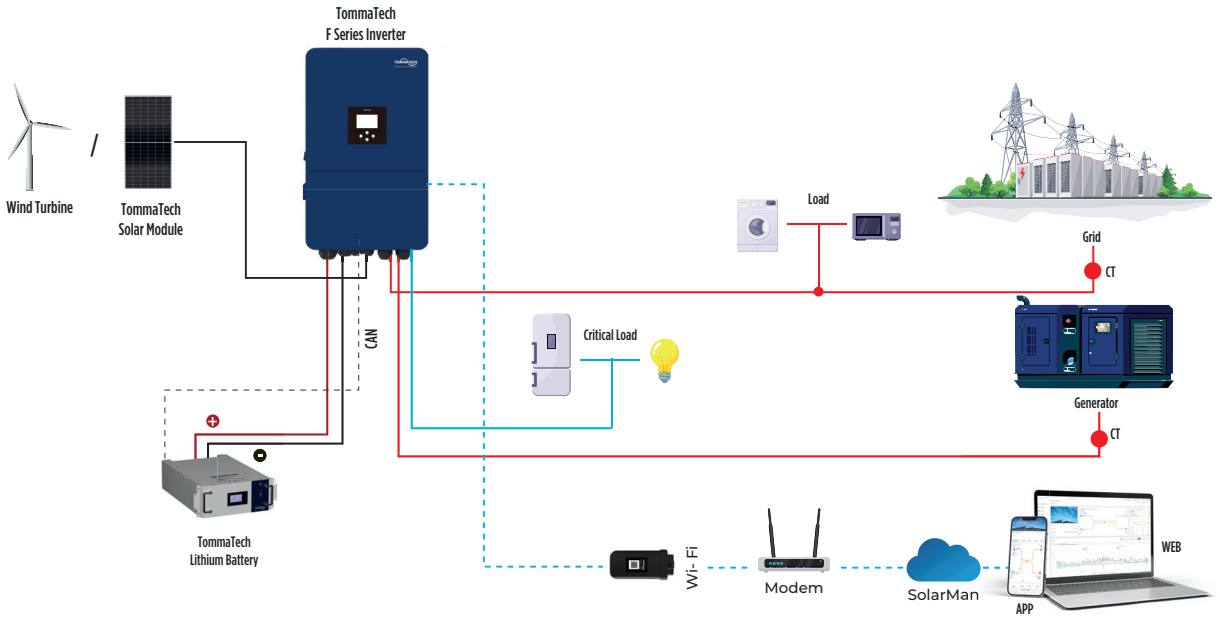
LV F Series

TommaTech Trio-Hybrid F Series Three Phase LV Hybrid Inverter is the ideal solution for low voltage battery applications with 48V battery system voltage as well as unbalanced phase output support. The inverter series, which is fully compatible with TommaTech LV Lithium Batteries, can be easily preferred for both residential and commercial projects with its remote control feature. The F series hybrid three-phase inverter can be used in parallel with up to 10 units and this power can be supported by lithium batteries in a sustainable way.

Product Features

- Expandable System
- 48V Battery Output Voltage
- 280A — 15kW Maximum Charge/Discharge Current
- 350A — 20kW Max Charge/ Decharge Current
- 3 Phase AC Output
- Phase Unbalance Adjustment
- Generator Supported
- MPPT High Efficiency
- AC Input/Output Wide Voltage Range
- Remote Monitoring
- PV High Voltage
- BMS — BMS Communication

Connection Diagram

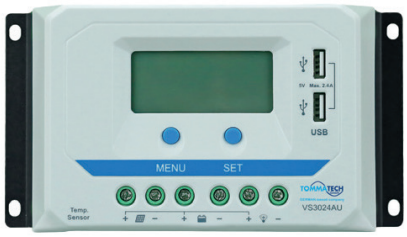


MODEL	TRIO HİBRİT LV 15.0F	TRIO HİBRİT LV 20.0F
BATTERY INPUT DATA		
Battery Type	Lead-Acid or Lithium-Ion	
Battery Voltage Range (V)	40-60	
Max. Charging Current (A)	280	350
Max. Discharging Current (A)	280	350
Charging Strategy for Li-ion Battery	Self-adaptation to BMS	
Number of Battery Input	1	
PV STRING INPUT DATA		
Max. PV Input Power (W)	22500	30000
Max. PV Input Voltage (V)	800	
Start-up Voltage (V)	160	
MPPT Voltage Range (V)	160-650	
Rated PV Input Voltage (V)	550	
Max. Operating PV Input Current (A)	36+20	
Max. Input Short-Circuit Current (A)	54+30	
No. of MPP Trackers/No. of Strings MPP Tracker	2 / 2+1	
AC INPUT/OUTPUT DATA		
Rated AC Input/Output Active Power (W)	15000	20000
Max. AC Input/Output Apparent Power (VA)	16500	20000
Rated AC Input/Output Current (A)	22.8/21.8	30.4/29
Max. AC Input/Output Current (A)	22.8/21.8	30.4/29
Max. Continuous AC Transition (mains to load) (A)	70	
Peak Power (off-grid) (W)	2 times the nominal power, 10 h	
Displacement Power Factor Adjustment Range	0,8 front 0,8 back 220/380V,	
Nominal Input/Output Voltage/Range (V)	230/400V 0 ,85Un-1,1Un	
Nominal Input/Output Grid	50/45-55, 60/55-65	
Frequency/Interval(Hz) Network Connection Form	3L+N+PE	
Total Current Harmonic Distortion	<%3 of (nominal power)	
THDi DC Injection Current	<%0,5 İçinde	
Parallel Connection (Pieces)	10	
EFFICIENCY		
Max. Efficiency	97.6%	
Euro Efficiency	97.0%	
MPPT Efficiency	>99%	
EQUIPMENT PROTECTION		
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Earth Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Over Voltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level	
Surge Protection Level	TIP II (DC), TIP II (AC)	
INTERFACE		
Communication Interface	RS485/RS232/CAN	
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (optional)	
GENERAL DATA		
Operating Temperature Range (°C)	-40 ila +60 (>45 Yield Loss)	
Permissible Ambient Humidity	0-100%	
Permissible Altitude	<3000	
Noise (dB)	<60	
Ingress Protection (IP) Rating	IP65	
Inverter Topology	Non-isolated	
Over Voltage Category	OVC II (DC), OVC III (AC)	
Cabinet Size (WxHxD mm)	456×750×268,5 (Excluding Connectors and Brackets)	
Weight (kg)	50.6	
Type of Cooling	Smart Cooling	
Warranty	10(5+5*)	

* Kurulum yeri Avrupa'da ise garanti süresi 10 yıldır.

AU SERIES PWM CHARGE CONTROLLERS

45A / 60A



AU Series

The Tommatech AU series controller is a PWM charge controller with a built-in LCD display adopting the most advanced digital technologies. The model, which includes multiple load control modes, can be easily preferred in systems such as solar home systems, traffic signalling systems, solar street lights, solar garden lights.

Product Features

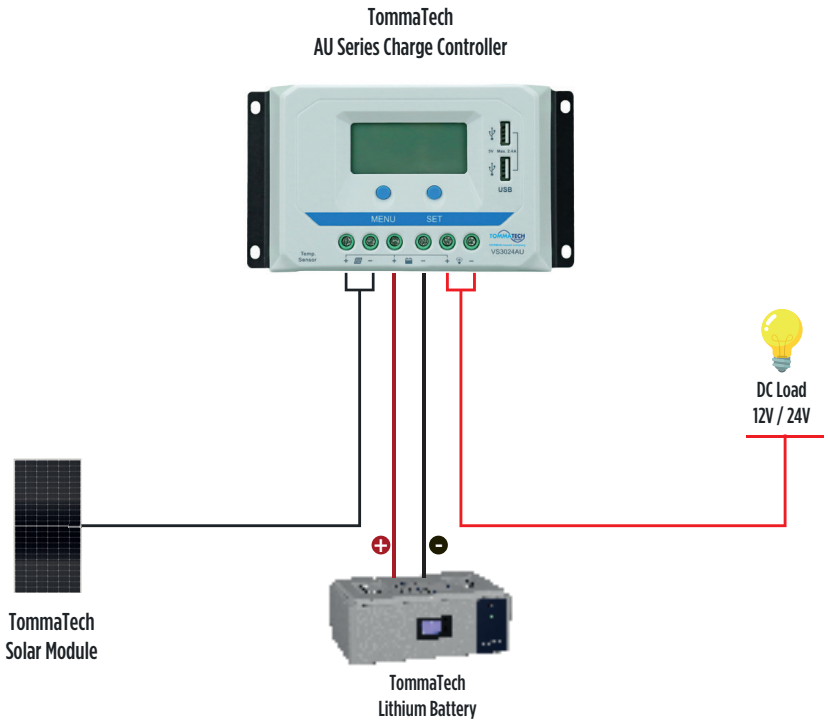
Compatible with 12V/24V/48V Battery Voltage

LCD Screen

High Efficiency

Max Charging Current up to 60A

Connection Diagram



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MODEL	TT1024AU	TT2024AU	TT3024AU	TT3048AU	TT4524AU	TT4548AU	TT6024AU	TT6048AU
Nominal System Voltage [V]	12/24 Auto			12/24/36/48 Oto	12/24 Oto	12/24/36/48 Oto	12/24 Oto	12/24/36/48 Oto
Battery Input Voltage Range [V]	9~32			9~64	9~32	9~64	9~32	9~64
Rated Charge / Discharge Current [A]	10 @55 °C	20 @55 °C	30 @55 °C		45 @55 °C		60 @55 °C	
Maximum PV Open Circuit Voltage [V]	50			96	50	96	50	96
Battery Type	Dry / Gel / Watery							
Balancing Charge Voltage [V]	Dry: 14.6 / Gel: No / Watery							
Upgrade Charge Voltage [V]	Dry: 14.4 / Gel: 14.2 / Watery: 14.6							
Float Charge Voltage [V]	Dry / Gel / Watery: 13.8							
Reconnection Voltage (Low Voltage) [V]	Dry / Gel / Watery: 12.6							
Disconnection Voltage (Low Voltage) [V]	Dry / Gel / Watery: 11.1							
Self Consumption	9.2mA /12V;11.7mA / 24V; 14.5mA / 36V;17mA / 48V							
Temperature Coefficient	-3mV / °C / 2V (25 °C)							
Charge Circuit Voltage Drop [V]	0.29							
Discharge Circuit Voltage Drop [V]	0.16							
LCD Display Operating Temperature Range [OC]	-20 ~+70							
Operating Environment Temperature Range [OC]	-25 ~+55 (Product can operate continuously at full load)							
Relative Humidity	95%, Non-condensing							
Protection Class	IP30							
Earthing	Joint Positive							
USB Output	5V / 2.4A (Total)							
General Dimensions [mm]	142x85x41.5	160x94.9x49.3	181x100.9x59.8		194x118.4x63.8		214x128.7x72.2	
Assembly Dimension [mm]	130x160	148x70	172x80		185x90		205x100	
Mounting Hole Size [mm]	4.5		5		5		5	
Connection Terminal [mm2]	4/12AWG	10/8AWG	16/6AWG		16/6AWG		25/4AWG	
Weight [kg]	0.22	0.35	0.55	0.58	0.76	0.88	1.02	1.04

SCC SERIES MPPT CHARGE CONTROLLERS

60A

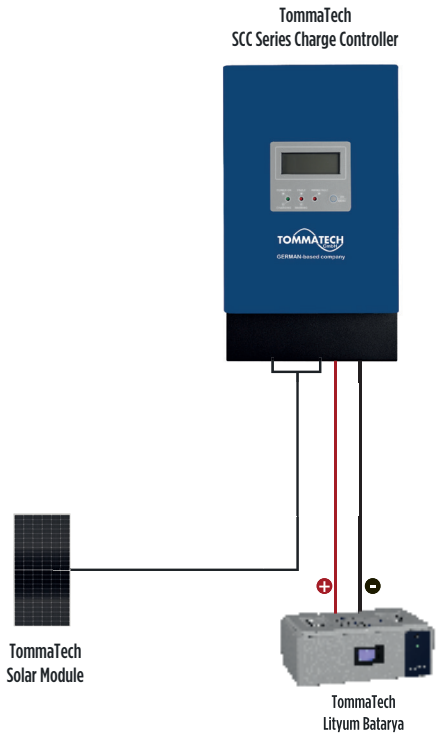
SCC Series

Equipped with combined MPPT Technology and DSP controller, the TommaTech 3kW Charge Controller Series is designed to charge the battery at the optimum voltage for off-grid systems at various temperatures. In this way, compared to conventional solar charge controllers, it is aimed to operate at the optimum power output voltage of the energy generated from solar panels.

Product Features

- **Compatible with 12V/24V/48V Battery Voltage**
- **LCD Screen**
- **High Efficiency**
- **Max Charging Current up to 60A**

Connection Diagram



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MODEL	SCC-MPPT 3kW
INPUT	
MPPT Operating Voltage [V]	60 ~ 115
Maximum PV Array Open Circuit Voltage [V]	145
Maximum PV Array Power [W]	800 I 1600 I 3200
Maximum Current [A]	50
OUTPUT	
Nominal Battery Voltage [V]	12 I 24 I 48
Connected Battery Type	Sealed Lead Acid, Dry, Gel
Maximum Charging Current [A]	60
Maximum Eciency [%]	98
Charging Method	Three Phases : Charged, Absorption, Variable
PROTECTION	
Over Load Protection	> %110 : Sound Alarm
Over Charge Protection	Evet
Reverse Pole Protection	Evet
INDICATORS	
LED Indicator	LCD Display Indicating Solar Energy, Load Level, Battery Voltage / Capacity, Charging Current and Failure Conditions
LED Display	Three Indicators for Solar, Charging and Load Status
PHYSICAL FEATURES	
Dimensions [DxWxH] [mm]	315 x 165 x 128
Net Weight [kg]	4.5
IP Protection	IP31
ENVIRONMENT	
Nem [%]	5 ~ 95 Relative Humidity (Non-condensing)
Operating Temperature [°C]	0 ~ 55
Storage Temperature [°C]	-15 ~ 60
Maximum Operating Altitude (Altitude) [m]	0 ~ 3000

PORTAL

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ANDROID APP ON Google play

Download on the App Store

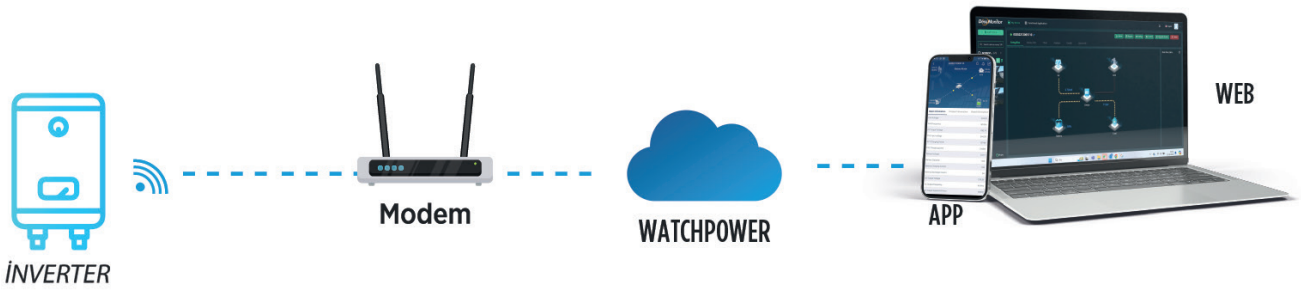
WatchPower

Easy Use

With the WatchPower application, remote monitoring can be done on NEW PRO series and M PLUS series devices. You can see instantaneous production, consumption and battery charge-discharge data in the system as simulation and table. Parameter settings and voltage range value can be changed remotely.

Easy Access

In this series, the wifi card is embedded in the graphics card without the need for an external Wifi dongle for monitoring. You can easily and free of charge access the application from Google Play Store and App Store.
After the installation, it records the power generated on a daily, monthly and annual basis in the cloud. Daily, monthly and annual data can be reported in the form of excel documents.



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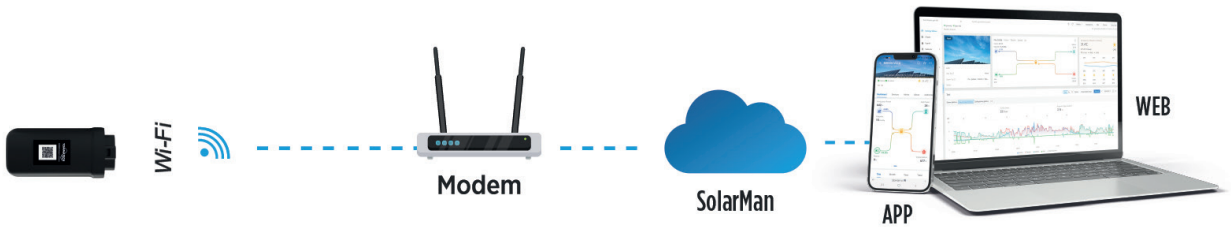
SolarMan

Easy Use

You can easily provide remote monitoring and control of your TommaTech F series devices via SolarMan application. From the voltage and current values you receive from the panels to the occupancy rate of your high voltage battery, you can make many setting changes and remote monitoring such as the instantaneous power requirement of your home and the input voltage range selection.

Easy Access

In the F series devices, you can install the Wifi dongle apparatus included in the product box internally by connecting it to your inverter. You can easily log in from anywhere at any time via WEB or APP. By logging in via WEB, you can access the detailed data of your system and create reports on a daily, monthly or annual scale.




Independent Energy,
Unlimited Life

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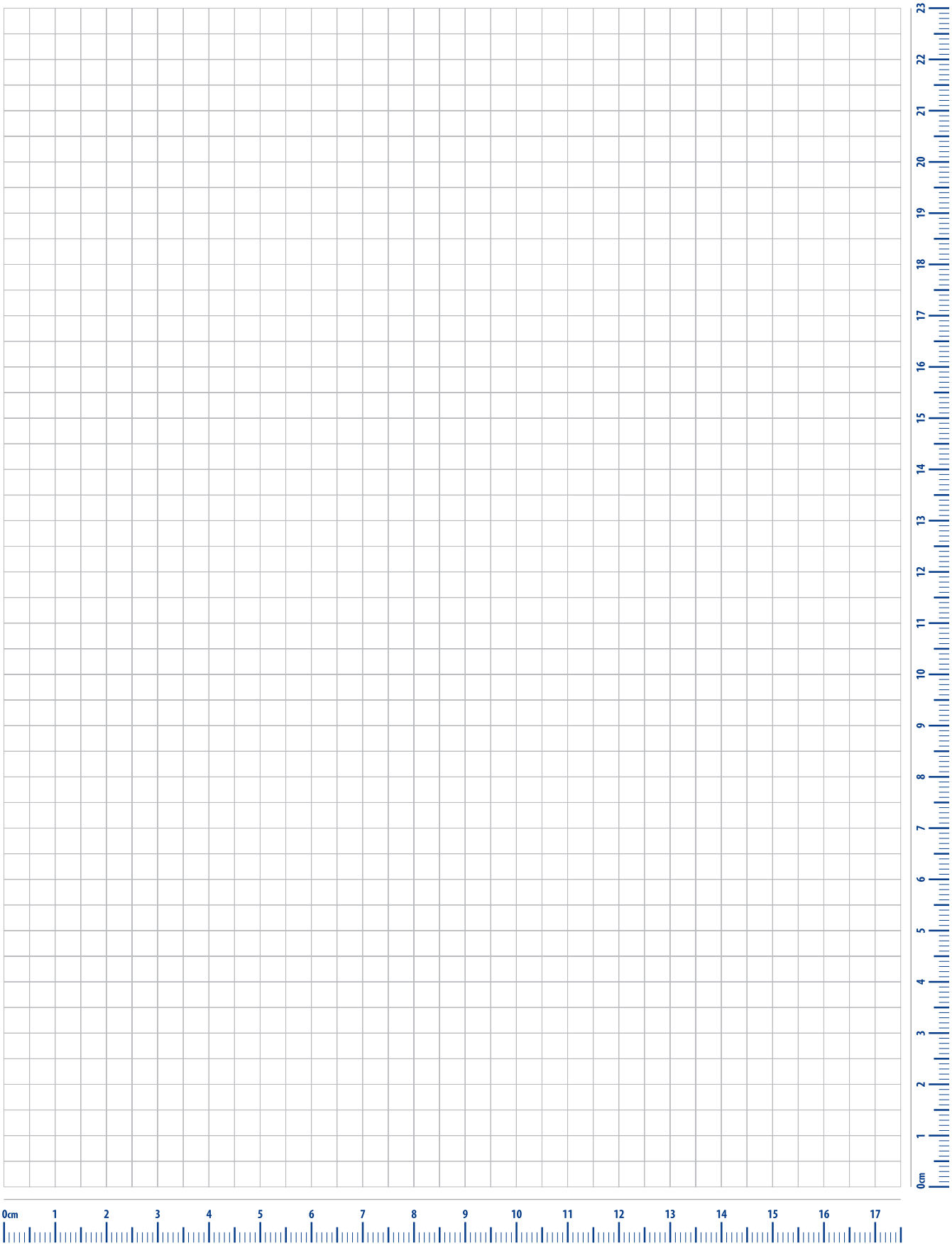

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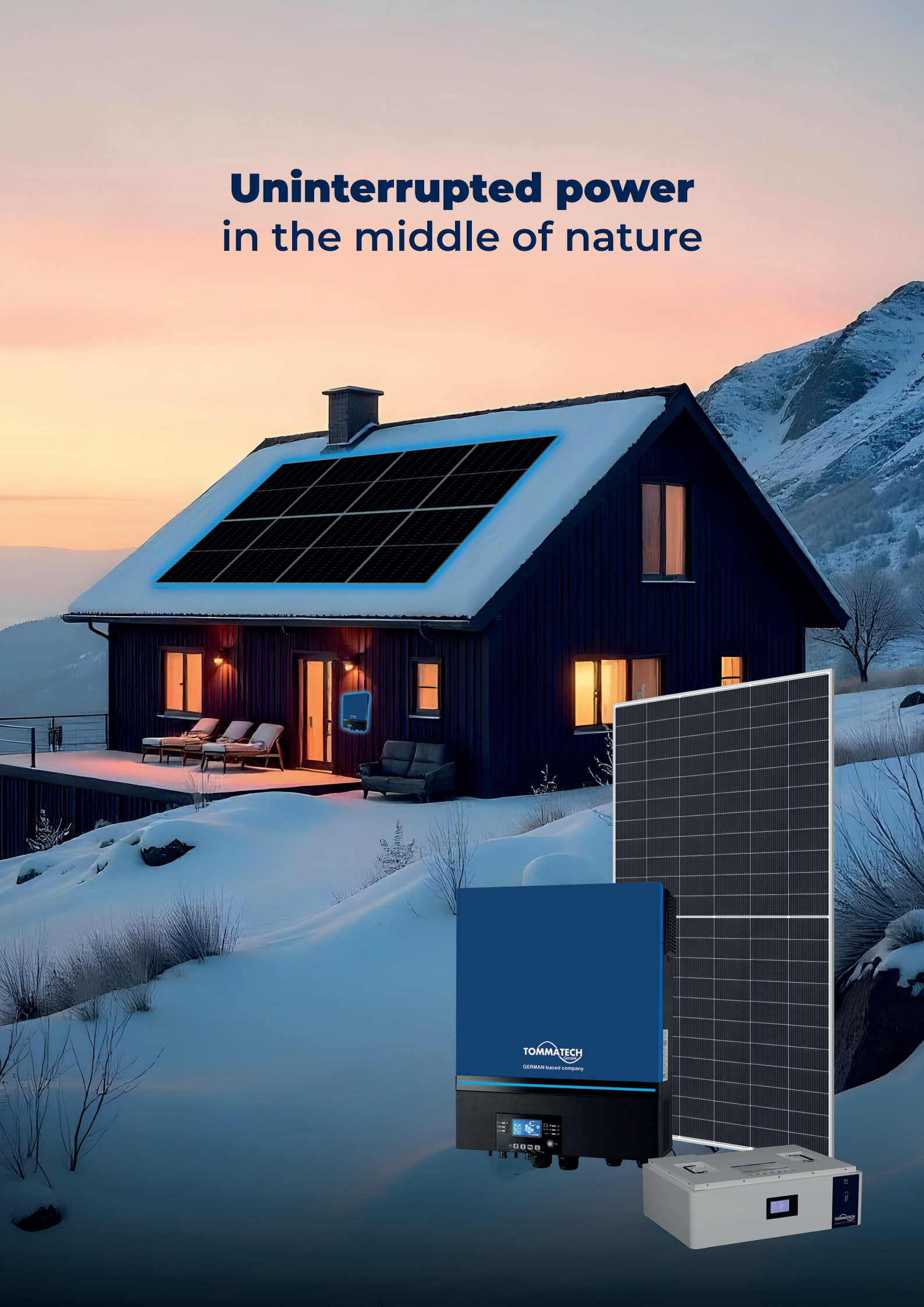
Uninterrupted power
in the middle of nature



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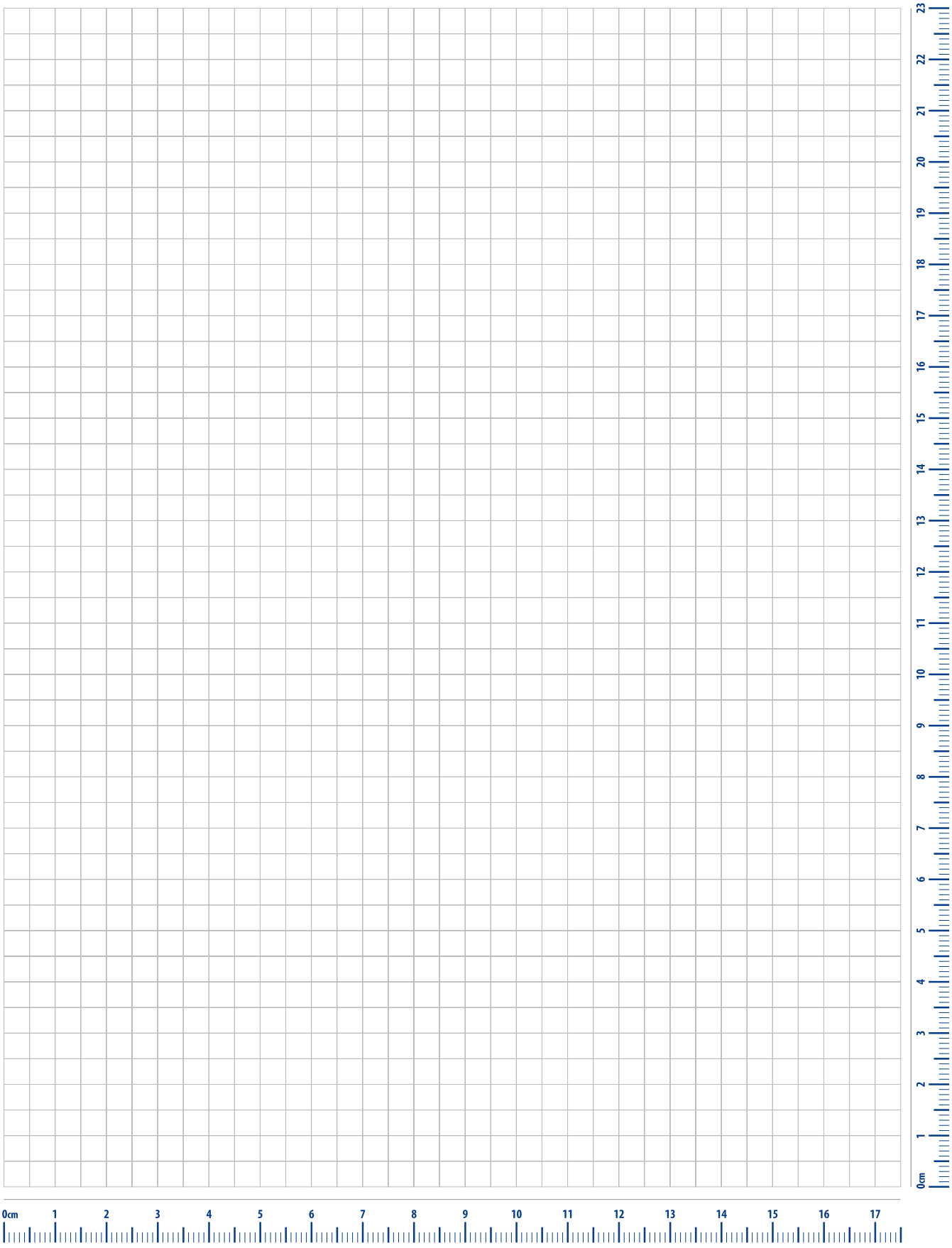

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Independent Energy
Sustainable Future

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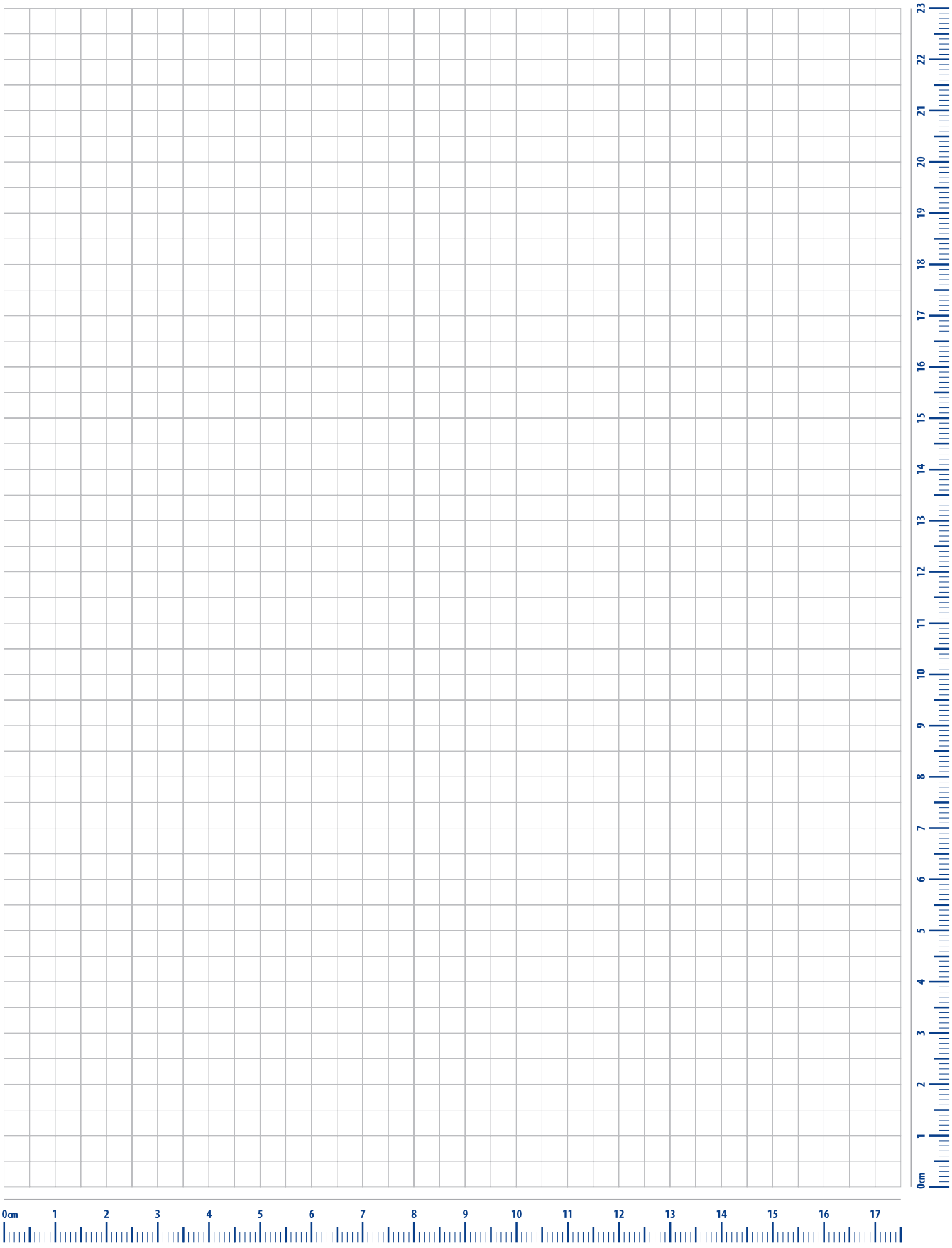

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