TOMMATECH GmbH

GERMAN-based company

OFF-GRID INVERTER Catalog

Garching - Munich Production Center / Germany

Antalya Production Center / Türkiye

Contents

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GERMAN-based company

About Us

TommaTech® aims to promote the use of solar energy by pioneering new technologies to meet the planet's energy needs with clean sources, support a sustainable future, contribute to the global economy, and leave a livable nature for future generations.

Vision - Mission

As a reliable, innovative, and competitive organization, TommaTech® provides solar energy equipment and solutions targeting all segments of society and the economy with the ultimate goal of adding value to homes and workplaces while protecting the environment without compromising on quality and customer satisfaction. From our headquarters in Garching, Germany, we export reliable solar energy equipment and solutions to over 60 countries worldwide at competitive prices. Our products are regularly tested by independent testing organizations and are produced in compliance with ISO and IEC standards.

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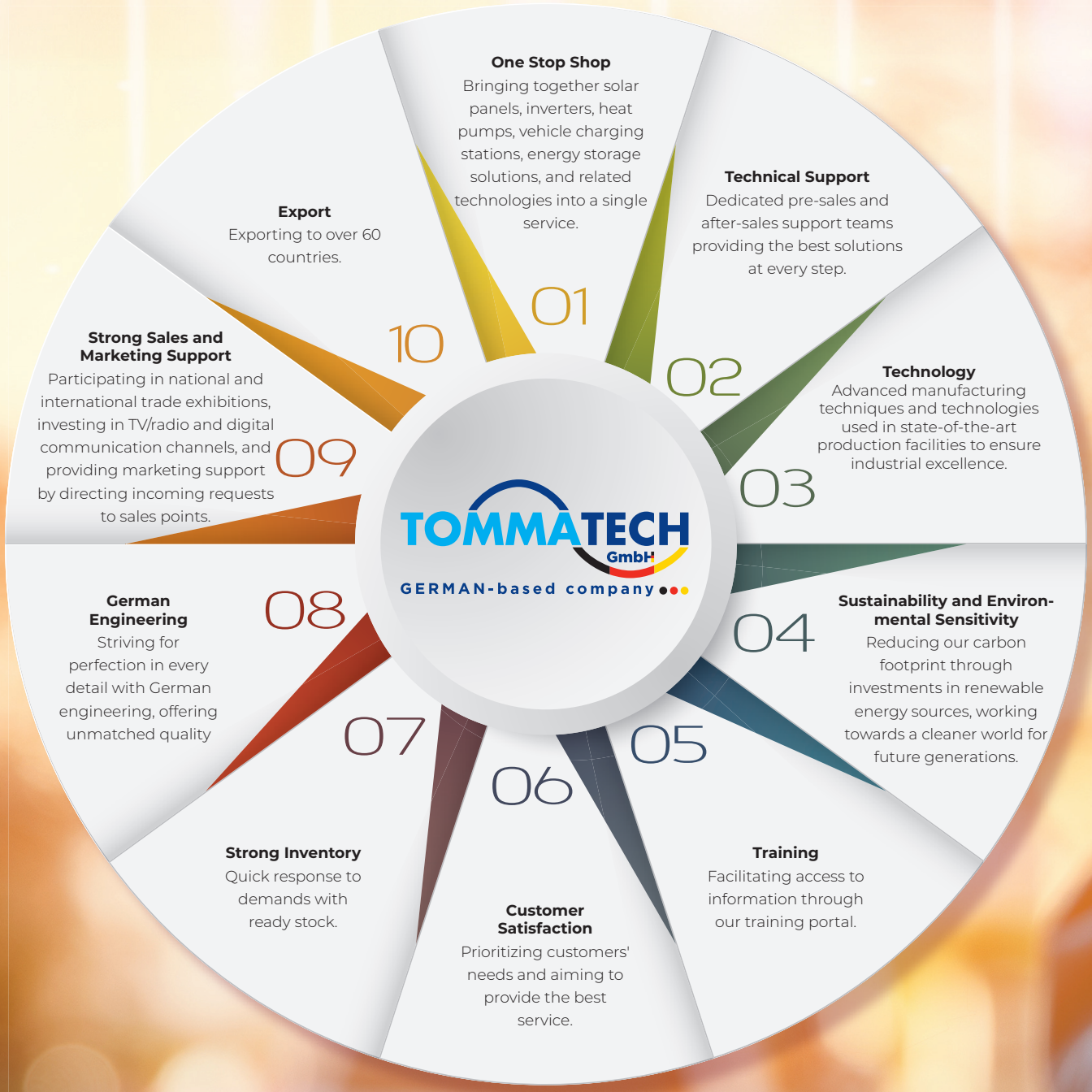

With TommaTech,

You Stay in Control!

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OFF-GRID

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

MPlus Series

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

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HYBRID

F Series

INV-HYB-48V-12K-F-TF
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 SYSTEMS

Portal

WatchPower

SolarMan

WHAT IS AN OFF-GRID INVERTER?

It is a device designed to supply the electrical energy produced by solar panels to power the loads of a house in areas without grid connections.

HOW DOES AN OFF-GRID INVERTER WORK?

An Off-Grid inverter primarily operates based on the inverter circuit principle inside it. The DC electrical energy generated by the solar panels is converted into AC electricity used in homes or workplaces through this inverter circuit.

WHY OFF-GRID INVERTER?

Thanks to its battery connection, it can store energy and provide uninterrupted power by using the stored energy during cloudy weather or evening hours. This way, electricity can continue to be generated from the sun regardless of the grid's condition.

WHERE IS AN OFF-GRID INVERTER USED?

It is an alternative preferred in systems with grid electricity for self-consumption, in areas where grid electricity is unavailable, or where setting up a grid connection is expensive and power outages are frequent.

WHO USES AN OFF-GRID INVERTER?

Off-grid solar inverters are widely used by individuals and organizations looking to meet their energy needs without relying on the electricity grid. These inverters convert the direct current (DC) produced by solar panels into alternating current (AC) to power electrical devices.

OPERATING PRINCIPLE OF AN OFF-GRID INVERTER

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

ADVANTAGES OF AN OFF-GRID INVERTER

- Off-Grid systems allow you to be completely independent in terms of energy, which can also be considered a security advantage.
- Its biggest advantage is that it provides a 100% independent energy source. You don't need to pay for electricity, and you are fully protected from rising energy prices.
- You are not affected by power outages since you don't rely on grid connections.
- The installation time for these systems is quite short, allowing them to be ready for use quickly.
- Installation is very easy and does not require long or complex assembly processes.
- Off-Grid systems offer the flexibility to expand according to your future needs.
- You do not need an additional generator, saving you from extra costs.

  Like all renewable energy systems, Off-Grid systems are environmentally friendly and emit no gases.
- They provide a solution independent of power outages by integrating with batteries in areas without grid electricity.
- Off-Grid systems are long-lasting and require only a one-time installation cost, with no ongoing bills to pay.
- Maintenance is very easy, and only periodic general maintenance is required, with no need for frequent upkeep.

OFF-GRID NEW SERIES INVERTERS

1kW - 3kW - 5kW

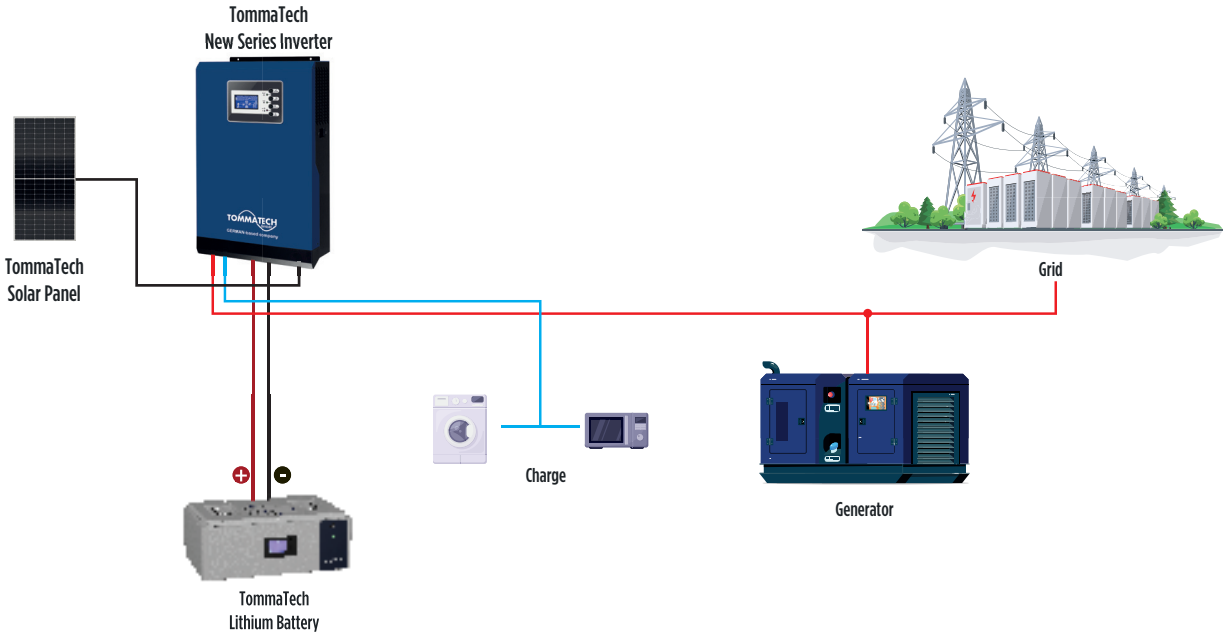
New

It offers a choice of PWM and MPPT charge control, allowing you 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
Rated Power [VA/W]	1000 / 1000		3000 / 3000		5000 / 5000	
Parallel Capability	No					
INPUT AC						
Voltage [V AC]	230					
Selectable Voltage Range [V AC]	170-280 (For Personal Computers) ; 90-280 (For Home Appliances)					
Nominal Frequency [Hz]	50 / 60 (Auto Sensing)					
INPUT DC						
Max input current per MPPT [A]	50	18	50	18	50	50
Max short circuit current per MPPT [A]	50	22	50	22	50	60
MPPT Range @ Operating Voltage [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
Strings per MPPT	N/A	1	N/A	1	N/A	1
OUTPUT						
AC Voltage Regulation (Batt. Mode) [V AC]	230 ± 5%					
Surge Power [VA]	2000		6000		10000	
Eciency (Peak) [%]	90 ~ 93					
Transfer Time [ms]	10 (For Personal Computers) ; 20 (For Home Appliances)					
Waveform	Pure Sine Wave					
BATTERY						
Battery Voltage [V]	12		24		48	
Floating Charge Voltage [V]	13.5		27		54	
Overcharge Protection [V]	16		33		63	
SOLAR CHARGER & AC CHARGER						
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 Range @ Operating Voltage [V]	N/A	17 ~ 80	N/A	30 ~ 80	N/A	60 ~ 115
Max. Solar Charge Current [A]	50	40	50	40	50	60
Max. AC Charge Current [A]	20		25		60	
Max. Charge Current [A]	50	60	70	60	110	120
PHYSICAL FEATURES						
Dimension, D x W x H [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					
ENVIRONMENT						
Humidity [%]	5 to 95 Relative Humidity (Non-condensing)					
Operating Temperature [°C]	-10 ~ 50					
Storage Temperature [°C]	-15 ~ 60					

OFF-GRİD NEW PRO SERİSİ İNVERTERLER

1.2kW - 3kW - 5kW

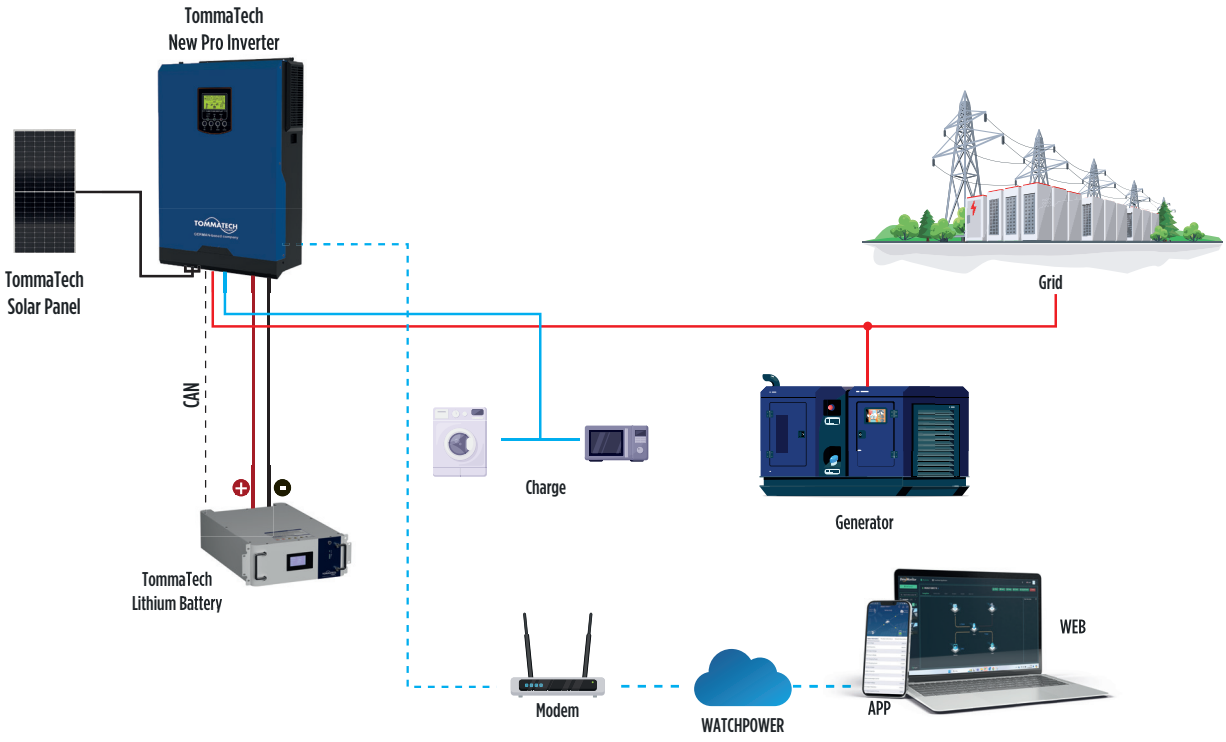
New Pro

High PV input power, battery-independent design, dust protection and easy maintenance options allow you to choose the right device for 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
Rated 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 Home Appliances)		
Nominal Frequency [Hz]	50 / 60 (Auto Sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)[V AC]	230 ± 5%		
Surge Power [VA]	2400	6000	10000
Eciency (Peak) [%]	90 ~ 93		
Transfer Time [ms]	10 (For Personal Computers) ; 20 (For Home Appliances)		
Waveform	Full Sine Wave		
BATTERY			
Battery Voltage [V]	12	24	48
Floating Charge Voltage [V]	13.5	27	54
Overcharge Protection [V]	16	32	63
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Max. PV Array Open Circuit Voltage [V]	350	450	500
Max. PV Array Power [W]	2000	3000	5000
MPPT Range @ Operating Voltage [V]	60~300	60~400	120~450
Max. PV Input Current [A]	80A		100A
Max. Solar Charge Current [A]	100A		
Max. AC Charge Current [A]	13		18
PHYSICAL FEATURES			
Dimension, D x W x H [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		
ENVIRONMENT			
Humidity [%]	5 bis 95 Relative Humidity (Non-condensing)		
Operating Temperature [°C]	-10 ~ 50		
Storage Temperature [°C]	-15 ~ 60		

TOMMATECH M PLUS SERIES SMART INVERTERS

3.6kW - 7.2kW - 11kW

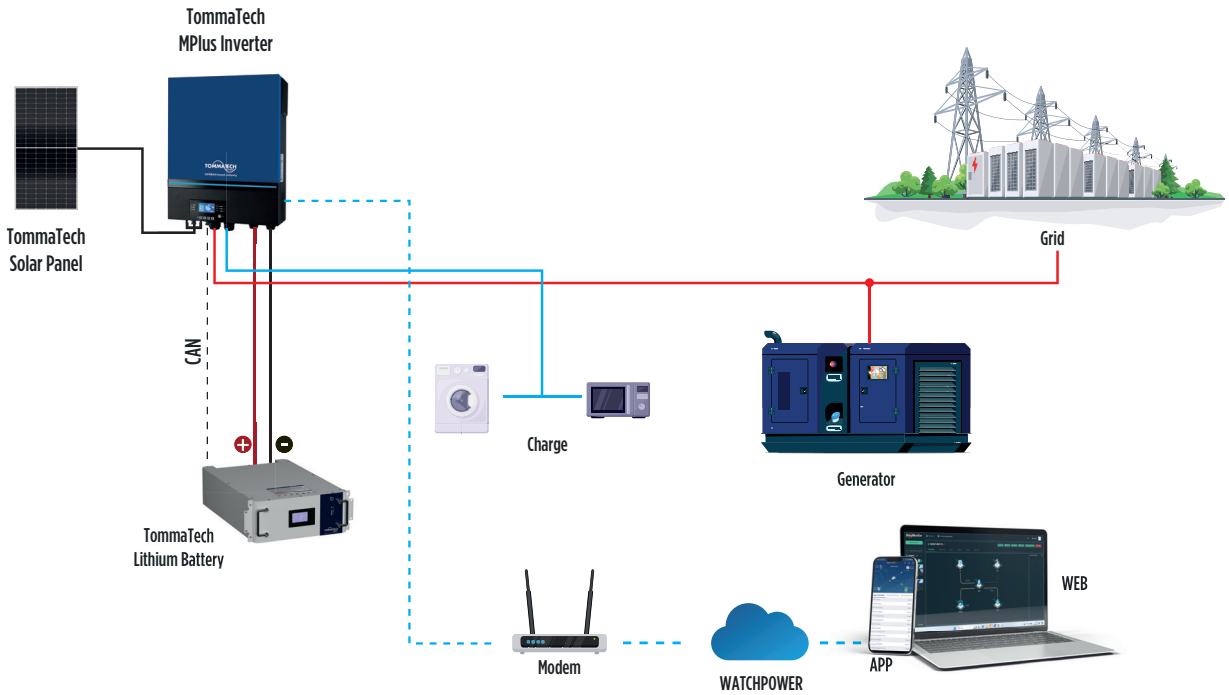
MPlus

High PV input power, protected against dust, easy maintenance, parallel connection options and built-in Wi-Fi allow you to choose the right device for your needs.

Product Features

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

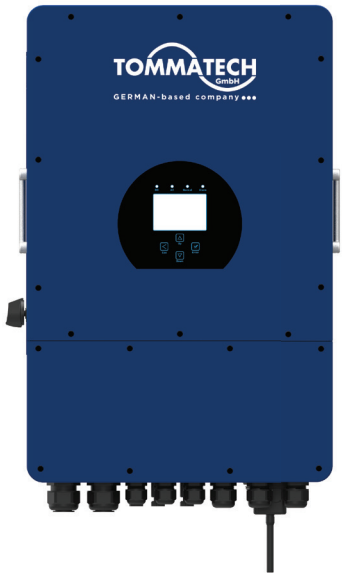
Connection Diagram



MODEL	TT-MPLUS 3.6KW-24V	TT-MPLUS 7.2KW-48V	TT-MPLUS 11KW-48V
Rated Power [VA/W]	3600 / 3600	7200 / 7200	11000 / 11000
Parallel Capability	No	Yes, 6 Pieces	
INPUT AC			
Voltage [V AC]	230		
Selectable Voltage Range [V AC]	170-280 (For Personal Computers) 90-280 (For Home Appliances)		
Nominal Frequency [Hz]	50 /60 (Auto Sensing)		
INPUT DC			
Max input current per MPPT [A]	18	18	18
Max short circuit current per MPPT [A]	22	22	22
MPPT Range @ Operating Voltage [V DC]	120 ~ 450	90 ~ 450	
Number of MPPT	1	2	2
Strings per MPPT	1	1	1
AC 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 Home Appliances) 10 (For Personal Computers) 20 (For Home 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
SOLAR & AC CHARGER			
Solar Charger Type	MPPT		
Max. PV Array Power [W]	4000	8000 (4000 x 2)	11000 (5500 x 2)
MPPT Operating Voltage Range [V DC]	120 ~ 450	90 ~ 450	
Max. PV Array Open Circuit Voltage [V DC]	500		
Max. Solar Charge Current [A]	80		150
Max. AC Charge Current [A]	80		150
Max. Charge Current [A]	80		150
PHYSICAL FEATURES			
Dimension, D x W x H [mm]	147.4 x 432.5 x 553.6		
Net Weight [kg]	14.1		18.4
Communication Interface	USB/RS232/RS485/Wi-Fi/Dry-Contact		
ENVIRONMENT			
Humidity [%]	5 ~ 95 RH (Non-Condensing)		
Operating Temperature [oC]	-10 ~ 50		
Storage Temperature [oC]	-15 ~ 60		
STANDARD			
Compliance Safety	CE		

TRIO HYBRID F SERIES INVERTERS

12kW



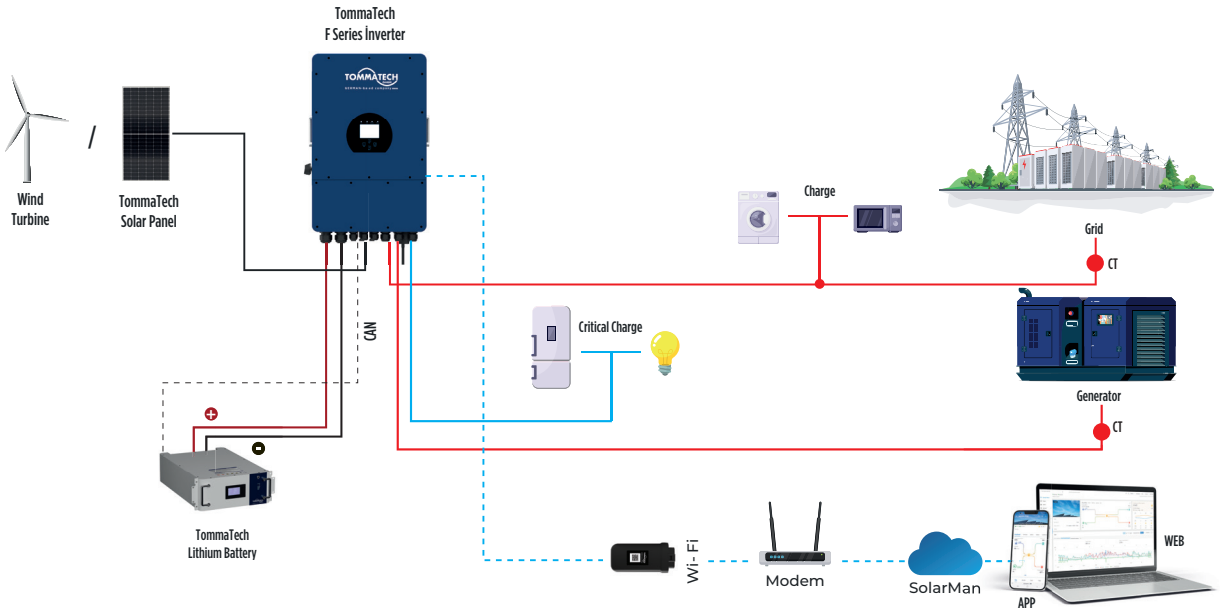
F Series

TommaTech Trio-Hybrid 12.0K 48V F Series Three Phase LV Hybrid Inverter is the ideal solution for low voltage battery applications with its unbalanced phase output support feature and 48V battery system voltage. 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 12.0kW hybrid three-phase inverter can reach high capacities with up to 10 units of parallel use, while at the same time this power can be sustainably supported by lithium batteries.

Product Features

- Incremental System
- 48V Battery Output Voltage
- 240A — Maximum Charge/Discharge Current
- 3 Phase AC Output
- Phase Imbalance Adjustment
- BMS — BMS Communication
- Generator Supported
- MPPT High Efficiency
- AC Input-Output Wide Voltage Range
- Remote Monitoring
- PV High Voltage

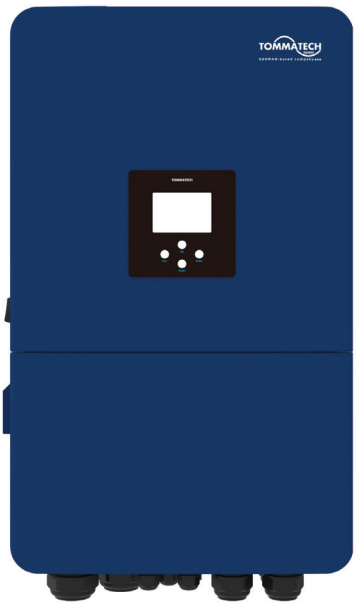
Connection Diagram



MODEL	INV-HYB-48V-12K-F-TF
DC INPUT	
Maximum PV Array Input Power [Wp]	15600
Nominal Input Voltage [V]	550
Initial Output Voltage [V]	160
MPPT Voltage Range [V]	200-650
Maximum PV Input Voltage [V]	800
Maximum Input Current (MPPT A / (MPPT B) [A]	26/13
Maximum Short Circuit Current (MPPT A / (MPPT B) [A]	34/17
MPPT Number	2
Number of Array Entries per MPPT	2/1
AC OUTPUT	
Rated AC Output Power [W]	12000
Maximum AC Output Apparent Power [VA]	13200
Maximum AC Output Current [A]	18.2 / 17.4
Maximum AC Input Current [A]	20 / 19.1
Maximum Three Phase Unbalanced Output Current (A)	27.3 / 26.1
Maximum Output Short Circuit Current [A]	75
Maximum Continuous AC Pass Current [A]	45
Maximum Power (Off Grid)	2 times the rated power (for 10 seconds)
Displacement Power Factor	0.8 ahead 0.8 behind
Nominal Mains Frequency [Hz], AC Voltage [V]	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Network Type	Three Phase
THDi (Rated Power) [%]	<3
DC Injection Current [mA]	<0.5
Parallel Connection (Qty)	10
BATTERY DATA	
Battery Type	Lead-Acid or Lithium-Ion
Battery Voltage Range [V]	40~60
Maximum Continuous Charging Current [A]	240
Maximum Continuous Discharge Current [A]	240
External Temperature Sensor	Internal
Charge Curve	3 Stages / Balancing
Charging Strategy for Li-ion Battery	Automatic Adaptation to BMS
SYSTEM DATA	
Maximum Efficiency [%]	97.6
European Efficiency [%]	97.0
MPPT Efficiency [%]	>99
Integrated	Anti-islanding Protection, PV Array Input Reverse Polarity Protection, Insulation Resistance Detection, Leakage Current Monitoring Unit, Output Overcurrent Protection, Output Short Circuit Protection
Surge Protection	DC Type III / DC Type III
Over Voltage Category	DC Type III / DC Type III
Operating Temperature Range [°C]	-40 ~ 60°C (Efficiency Loss>45°C)
Cooling Method	Smart Cooling
Noise Emission [dB]	55
BMS Communication Interface	RS485; CAN
Net Weight [kg]	33.6
Dimensions (Width x Height x Depth) [mm]	422×702×281 (Excluding Connectors and Brackets)
Protection Class	IP65
Installation Type	Wall Mounted
Guarantee	10(5+5*)

TRIO HYBRID F SERIES INVERTERS

15kW - 20kW



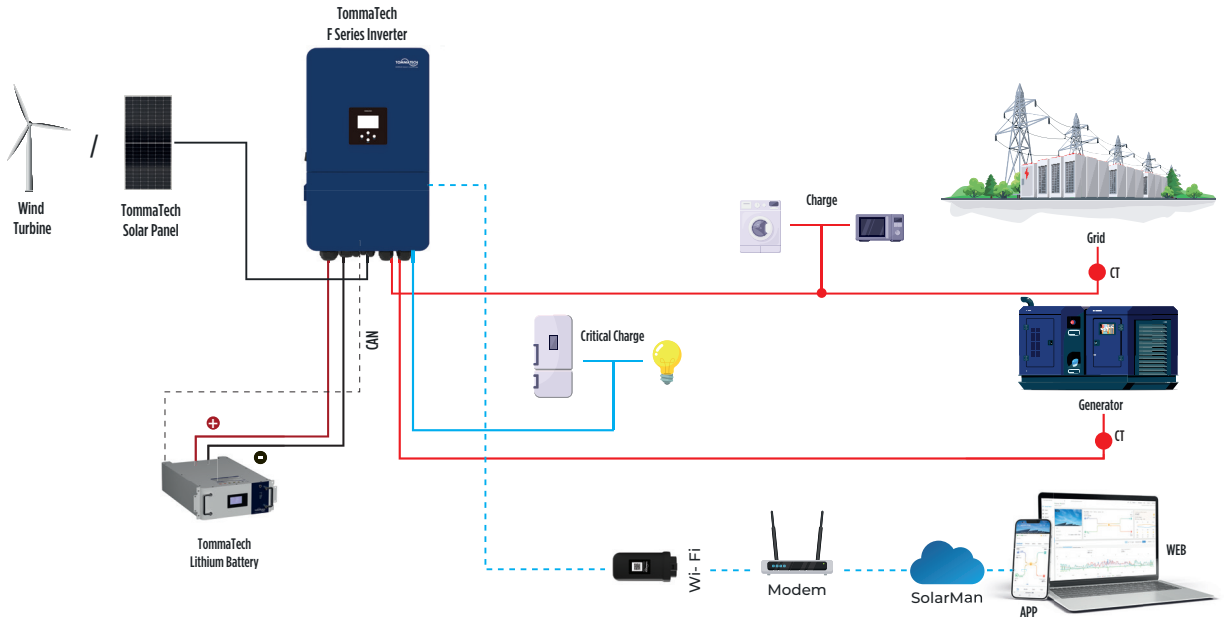
F Series

TommaTech Trio-Hybrid F Series Three Phase LV Hybrid Inverter is the ideal solution for low voltage battery applications with its unbalanced phase output support feature and 48V battery system voltage. Fully compatible with TommaTech LV Lithium Batteries, the inverter series can be easily preferred for both residential and commercial projects with its remote control feature. The F series hybrid three-phase inverter can reach high capacities with up to 10 units of parallel use, while at the same time this power can be sustainably supported by lithium batteries.

Ürün Özellikleri

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

Connection Diagram

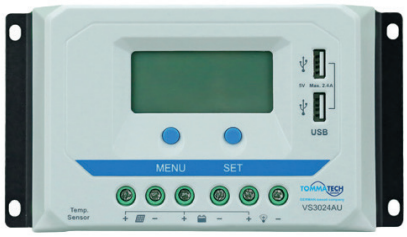


MODEL	TRIO HYBRID LV 15.0F	TRIO HYBRID LV 20.0F
BATTERY INPUT DATA		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40-60	
Max. Charging Current (A)	280	350
Max. Discharging Current (A)	280	350
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
Number of Battery Input	1	
PV 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)Max.	15000	20000
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 Passthrough (grid to load) (A)	70	
Peak Power (off-grid) (W)	2 times of rated power, 10s	
Power Factor Adjustment RangeNominal	0.8 leading to 0.8 lagging	
Rated Input/Output Voltage/Range (V)	230/400V 0 ,85Un-1,1Un	
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	
Grid Connection Form	3L+N+PE	
Total Current Harmonic Distortion THDi	<3% (of nominal power)	
DC Injection Current	<0.5% In	
Parallel Connection (Qty)	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, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage 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 to +60 , >45 Derating	
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	Intelligent Air Cooling	
Warranty	10(5+5*)	

* If the installation location is in Europe, the warranty period is 10 years.

AU SERIES PWM CHARGE CONTROLLERS

45A / 60A



AU Series

Tommatech AU series controller is a PWM charge controller with 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, trafic signaling systems, solar street lights, solar garden lights.

Product Features

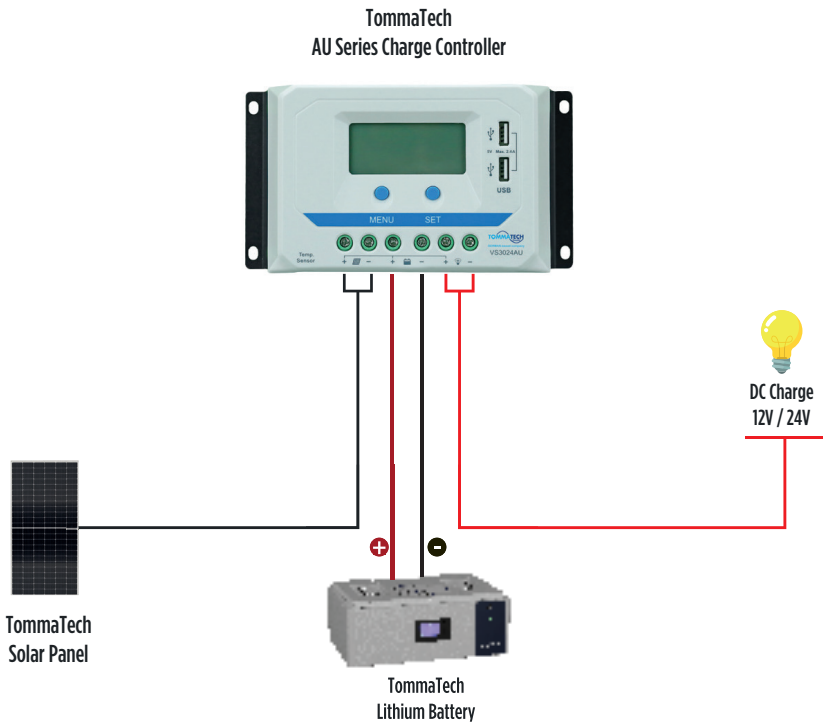
12V/24V/48V Battery Compatible with Voltage

LCD Screen

High Productivity

Up to 60A Max. Charge Current

Connection Diagram



MODEL	TT1024AU	TT2024AU	TT3024AU	TT3048AU	TT4524AU	TT4548AU	TT6024AU	TT6048AU
Nominal System Voltage [V]	12/24 Oto			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 / Aqueous							
Equalization Charge Voltage [V]	Dry: 14.6 / Gel: No / Watery: 14.8							
Boost Charge Voltage [V]	Dry: 14.4 / Gel: 14.2 / Watery: 14.6							
Float Charge Voltage [V]	Dry / Gel / Aqueous: 13.8							
Reconnect Voltage (Low Voltage) [V]	Dry / Gel / Aqueous: 12.6							
Disconnect Voltage (Low Voltage) [V]	Dry / Gel / Aqueous: 11.1							
Self Consumption	9.2mA/12V; 11.7mA/24V; 14.5mA/36V; 17mA/48V							
Temperature Coefficient	-3mV / °C / 2V (25 °C)							
Charging Circuit Voltage Drop [V]	0.29							
Discharge Circuit Voltage Drop [V]	0.16							
LCD Display Operating Temp. Range [OC]	-20 ~+70							
Operating Ambient Temperature Range [OC]	-25~+55 (Product can operate continuously at full load)							
Relative Humidity	95%, Non-condensing							
Protection Class	IP30							
Grounding	Common Positive							
USB Output	5V / 2.4A (Total)							
Overall Dimension [mm]	142x85x41.5	160x94.9x49.3	181x100.9x59.8		194x118.4x63.8		214x128.7x72.2	
Mounting Size [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

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

Product Features

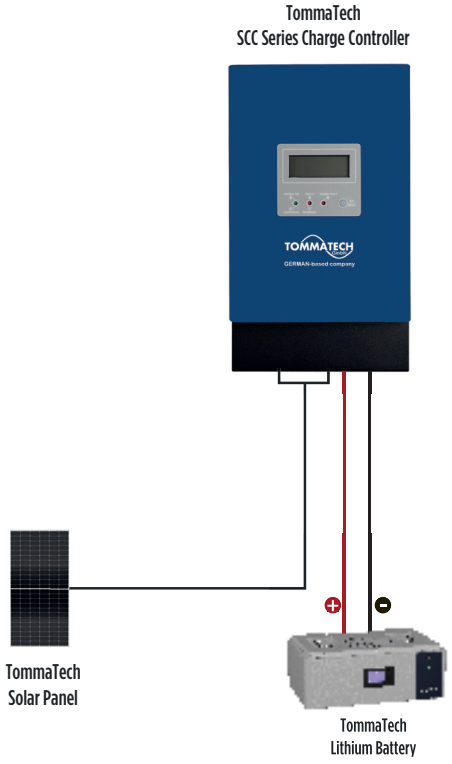
12V/24V/48V Battery Compatible with Voltage

LCD Screen

High Productivity

Up to 60A Max. Charge Current

Connection Diagram



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 Efficiency [%]	98
Charging Method	Three Phases : Charged, Absorption, Variable
PROTECTION	
Overload Protection	> %110 : Audible Alarm
Overcharge Protection	Yes
Reverse Polarity Protection	Yes
INDICATORS	
LED Indicator	Solar Energy, Load Level, Battery Voltage / Capacity, Charging Current and LCD Display Indicating Failure Conditions
LED Display	Three Indicators for Solar, Charging and Load Status
PHYSICAL PROPERTIES	
Dimensions [DxWxH] [mm]	315 x 165 x 128
Net Weight [kg]	4.5
IP Protection	IP31
ENVIRONMENT	
Moisture [%]	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

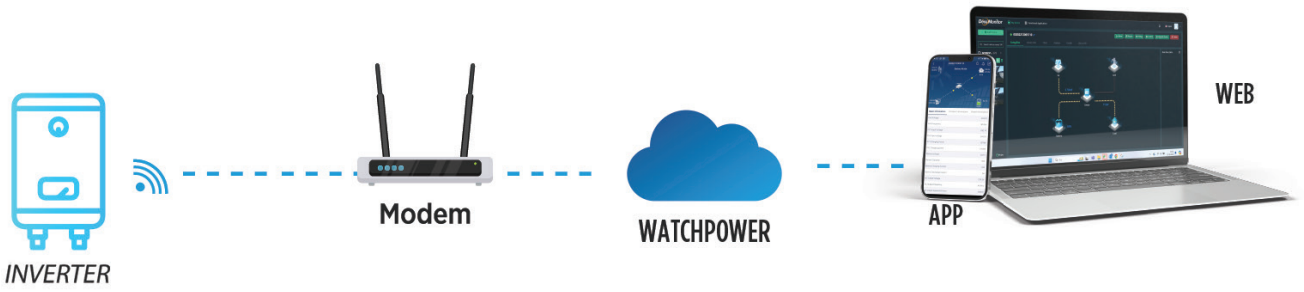
WatchPower

Easy to Use

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

Easy Access

You don't need an external Wifi dongle for monitoring, in this series the wifi card is embedded in the video card. is as follows. You can access the application easily and free of charge from Google Play Store and App Store stores. After installation, it saves the power generated on a daily, monthly and annual basis in the clouda. Daily, monthly and yearly data can be excel documented in the form of a report.



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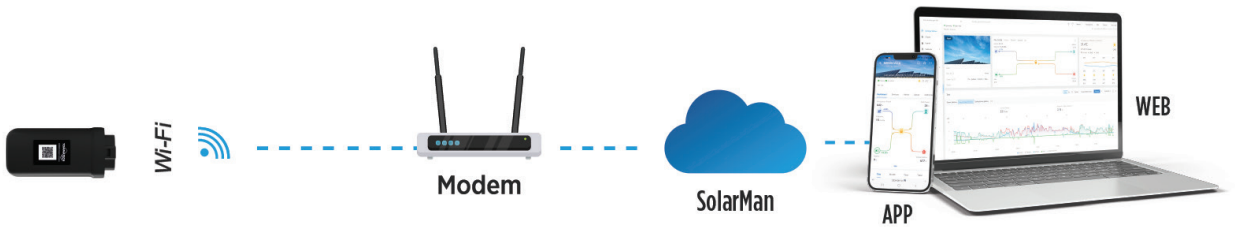
SolarMan

Easy Installation

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 fullness rate of your high voltage battery, you can make many setting changes and remote monitoring such as your home's instant power needs and input voltage range selection.

Easy Access

In our F series devices, you can install the Wifi dongle apparatus included in the product box by connecting it to our 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.



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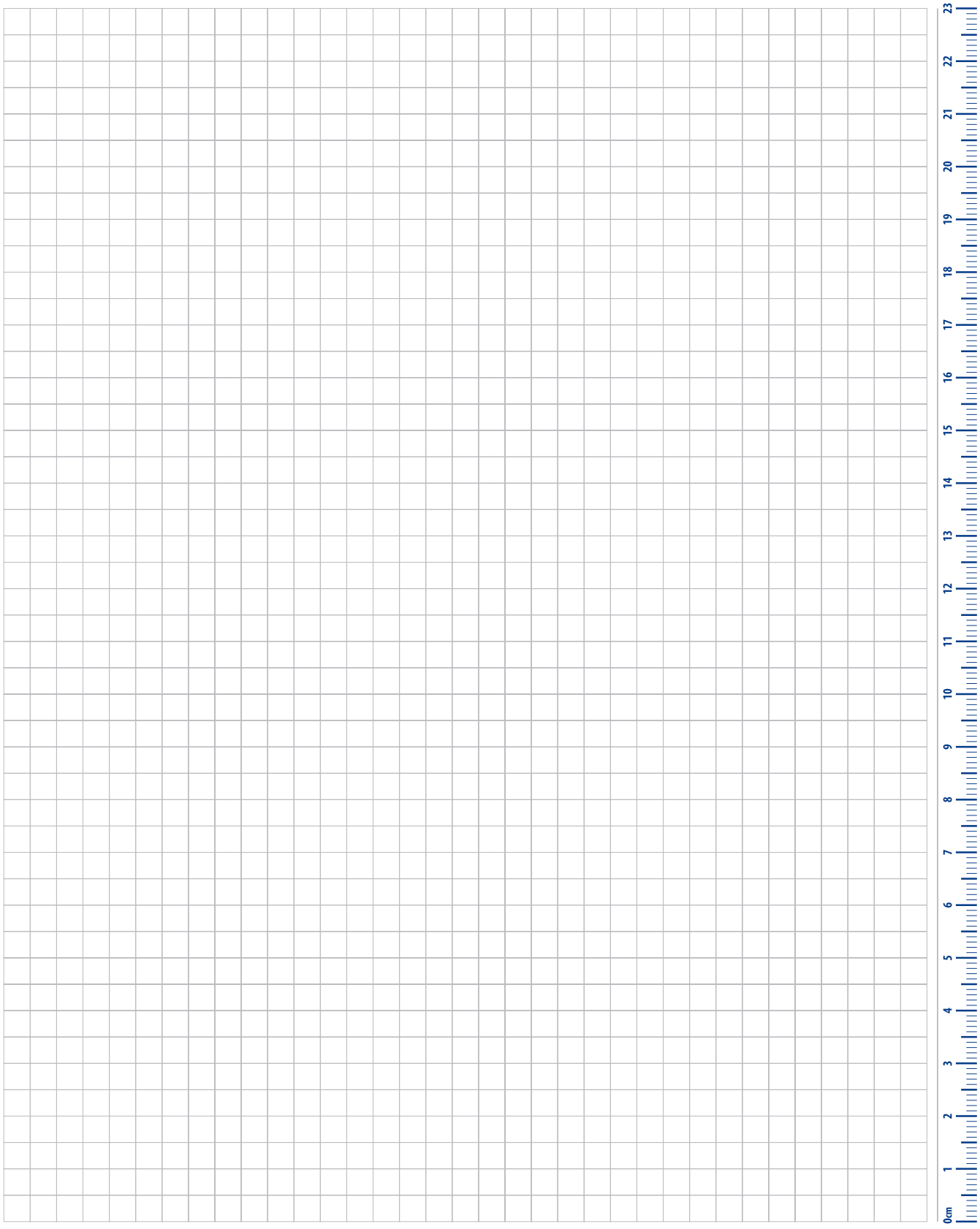

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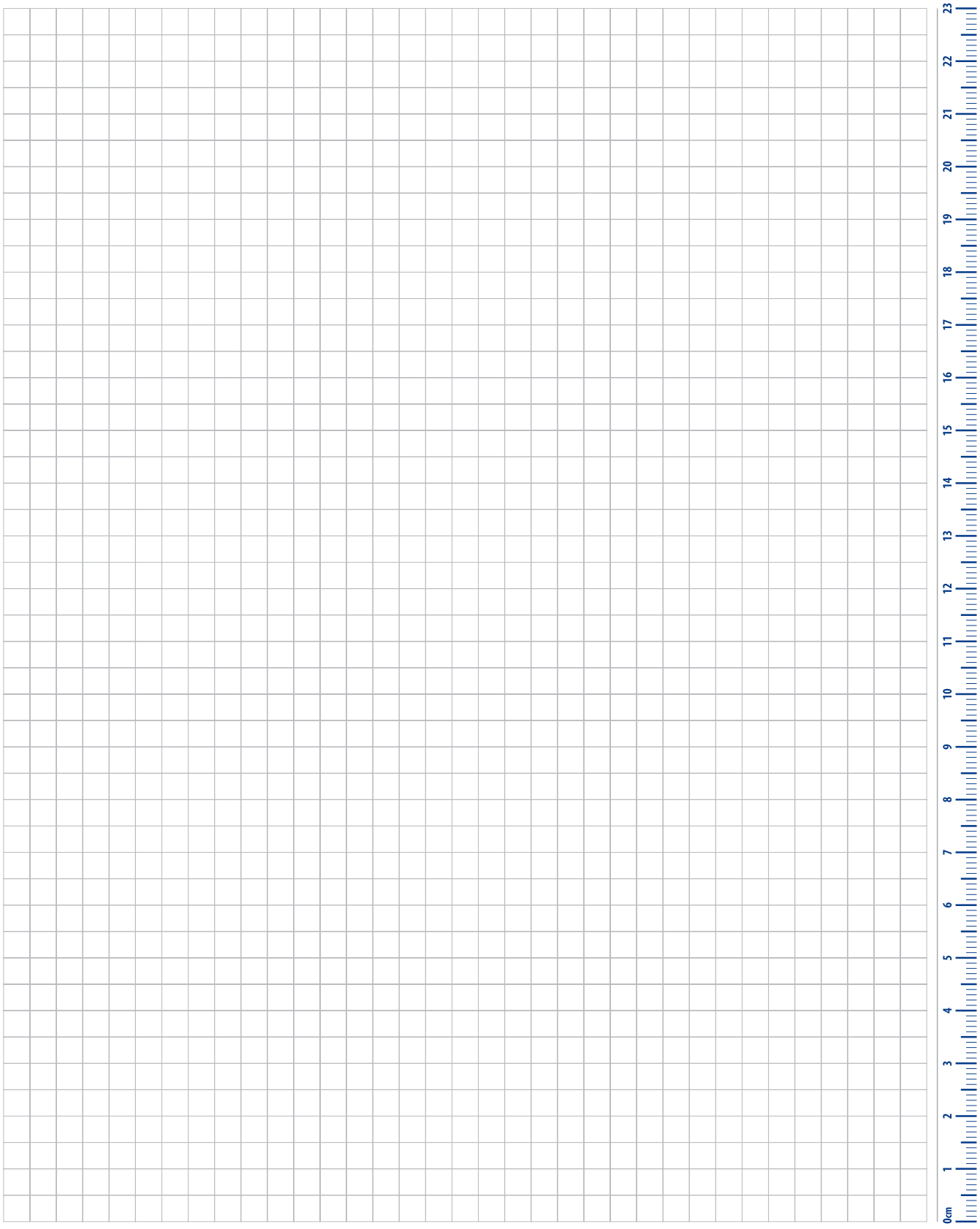

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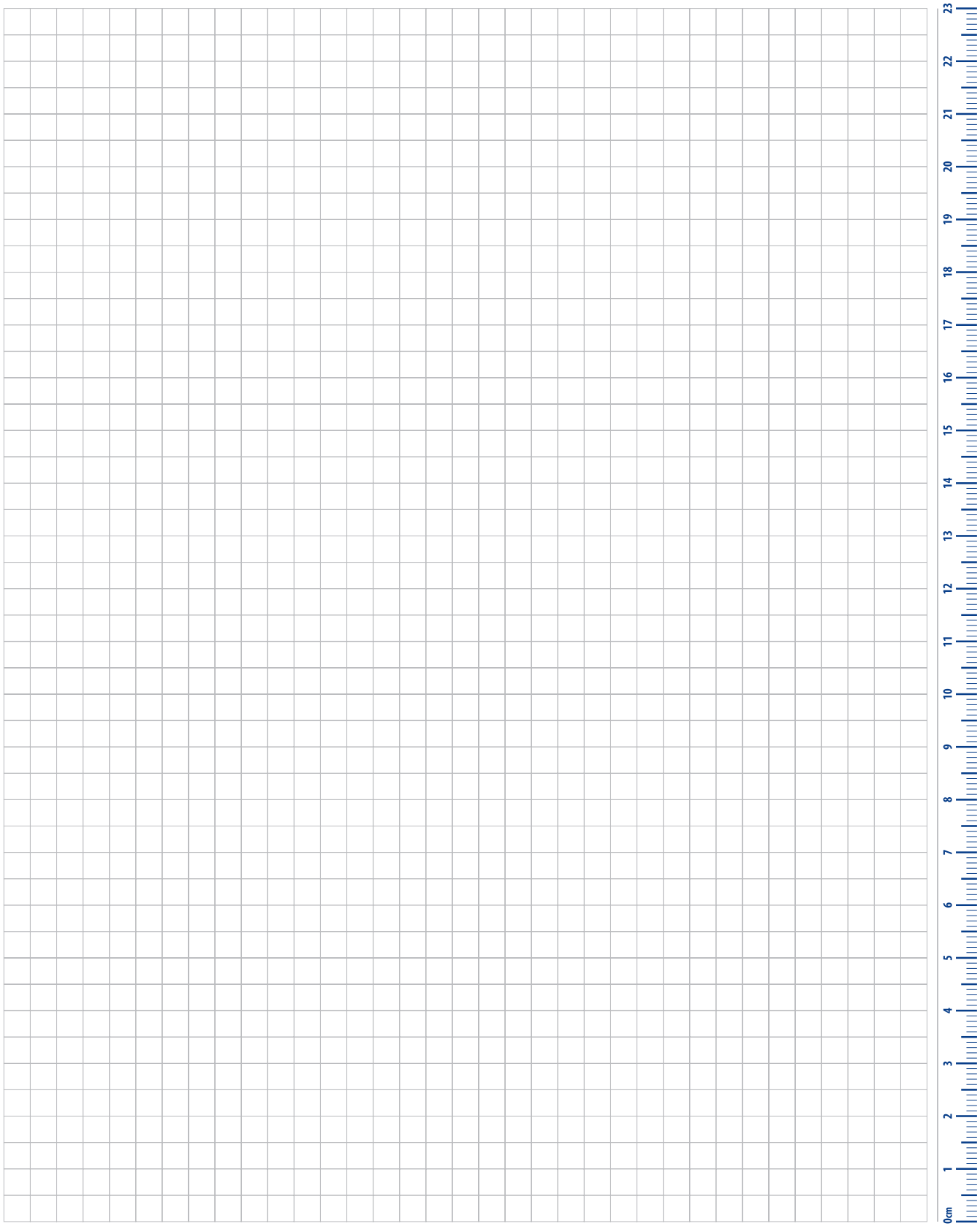

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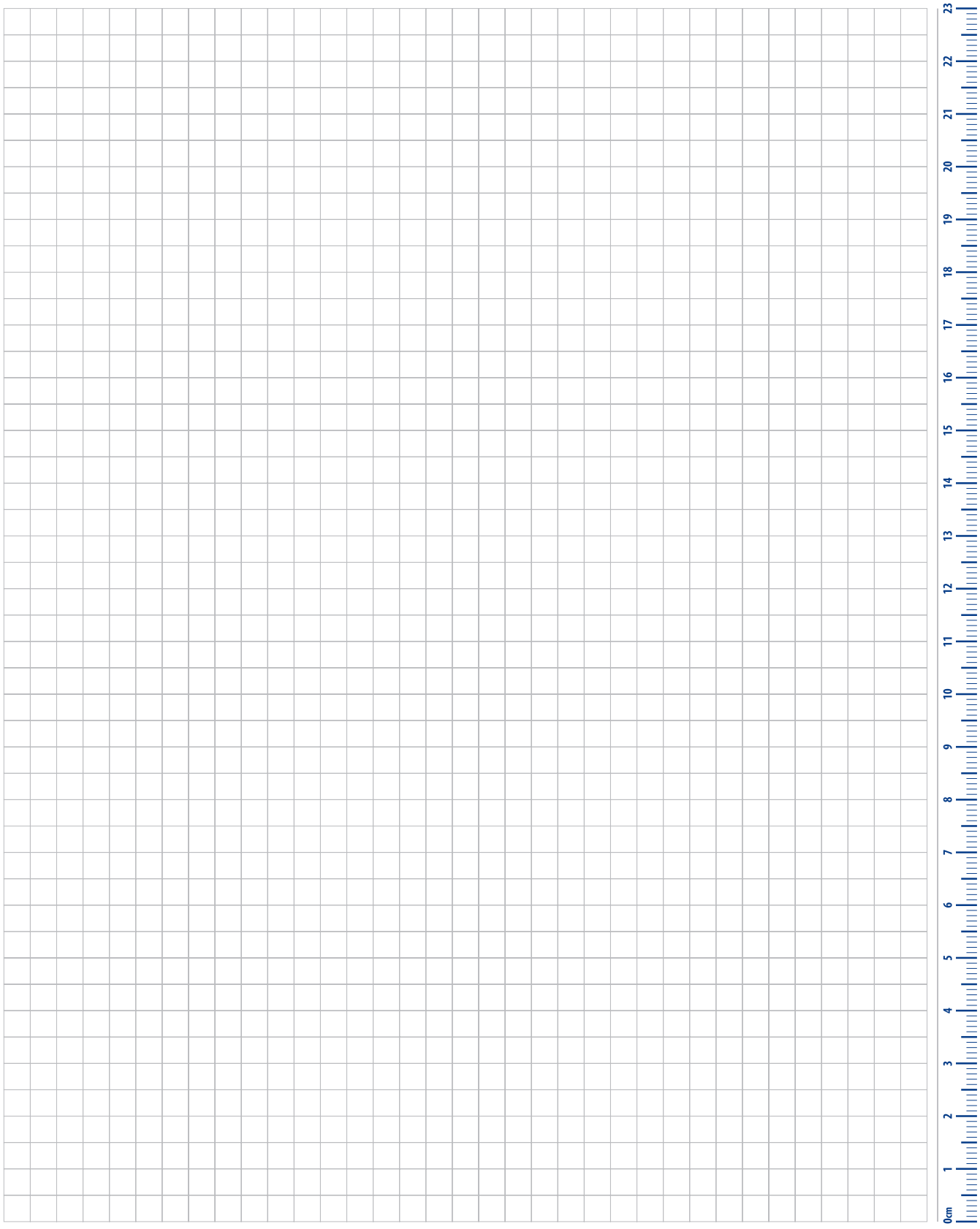

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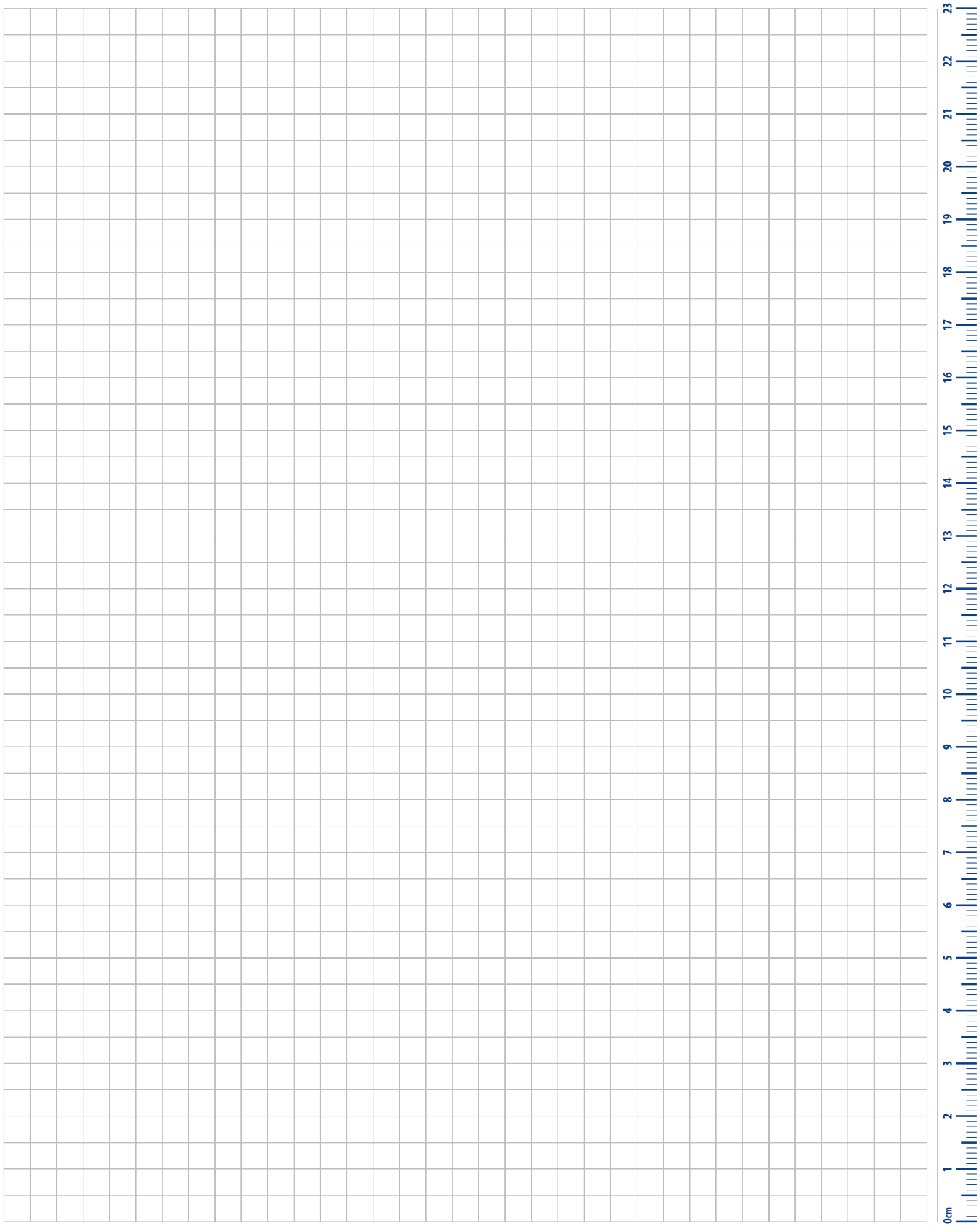

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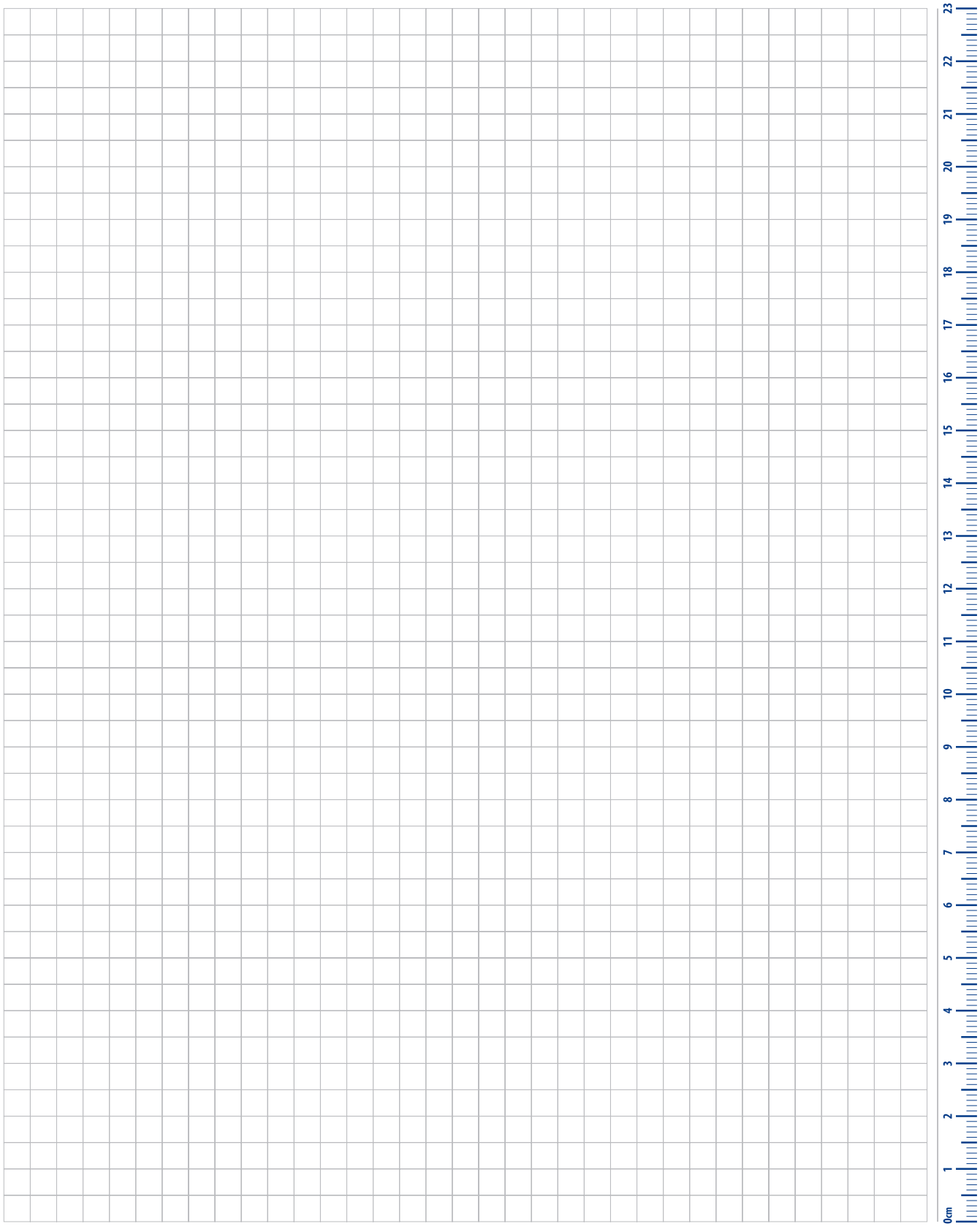

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