TOMMATECH GmbH

GERMAN-based company

LITHIUM BATTERY

Catalog





Garching - Munich Production Center / Germany



Antalya Production Center / Turkey

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TOMMATECH GmbH
GERMAN-based company

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 mutual, in-depth understanding of our mission. In this way, we aim to make 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 neutrality."

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

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 technology that plays a crucial role in contributing to energy independence 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

TOMMATECH GmbH

GERMAN-based company


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. 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 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 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.

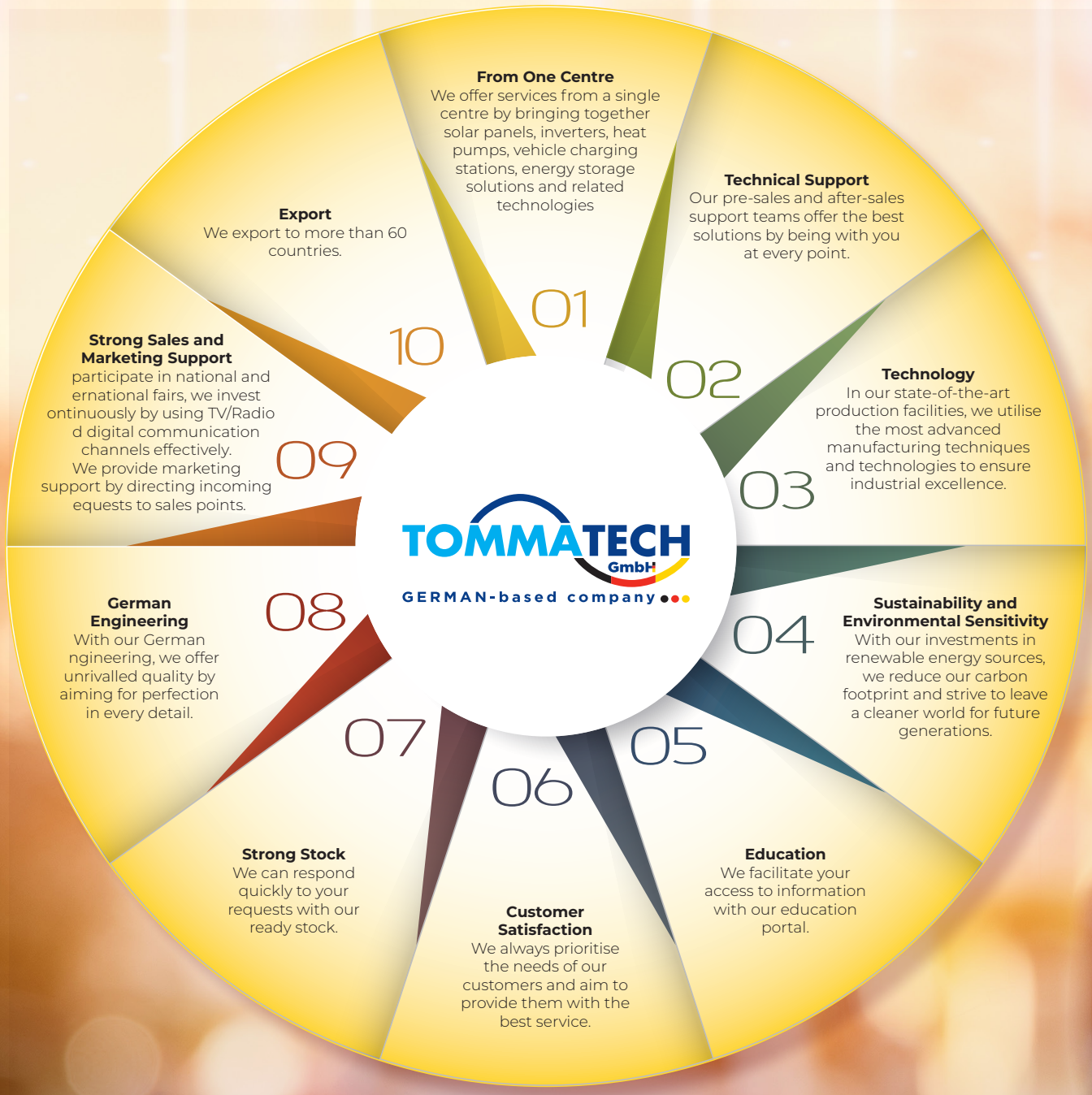
Our customers and partners can rely on our strong commitment. We employ innovative and sustainable technologies to ensure that our solutions are not only efficient but also environmentally friendly. Every project is executed with the highest standards of quality and a focus on long-term customer satisfaction.

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 customers with the best combination of efficiency, ease of use, and economic benefit, making the transition to renewable energy simple and appealing.

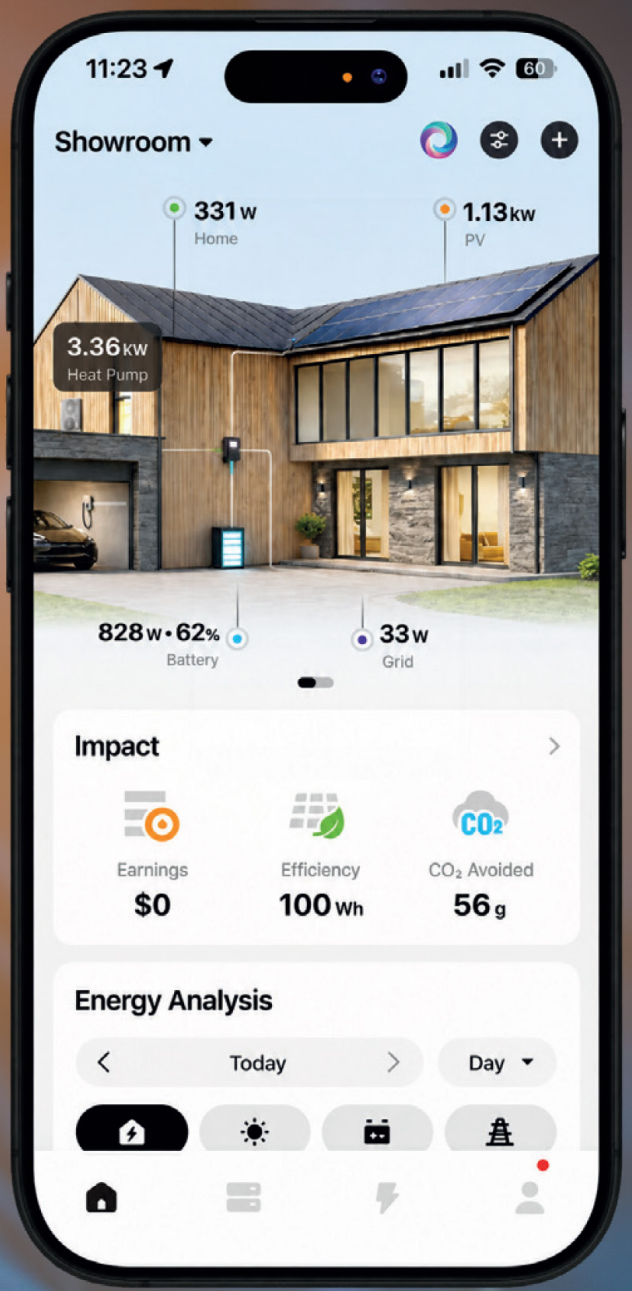
Our Home Solution products enable customers to meet their energy needs sustainably while saving costs. Homes equipped with our technology benefit from intelligent energy management and a reduced carbon footprint. Our solutions are not only environmentally friendly but also user-friendly, allowing every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



With TommaTech

You are in control!

TOMMATECH GmbH
GERMAN-based company
CLOUD



1 PV Panel

2 BIPV Veranda

3 Carport

7 EV Charging Unit

8 Pool Heat Pump

9 Power Series Heat Pump

CW ALÜMİNYUM
Manufactured with CW Aluminium Expertise

TOMMATECH GmbH
GERMAN-based company

Cloud



"Experience the Comfort of the Future."

With **TommaTech Cloud,**
the control of your home is at your fingertips.

13 Thermal Panel

14 Boiler Tank

15 Circulation Pump

19 Control Panel

20 Alarm Panel

21 Solar Camera

4 İnverter

5 Lithium Battery

6 Smart Meter

10 Fan Coil Heating & Cooling

11 Underfloor Heating

12 Hot Water

TOMMATECH GmbH

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16 White Goods

17 Built-in Set

18 Built-in Coffee Machine

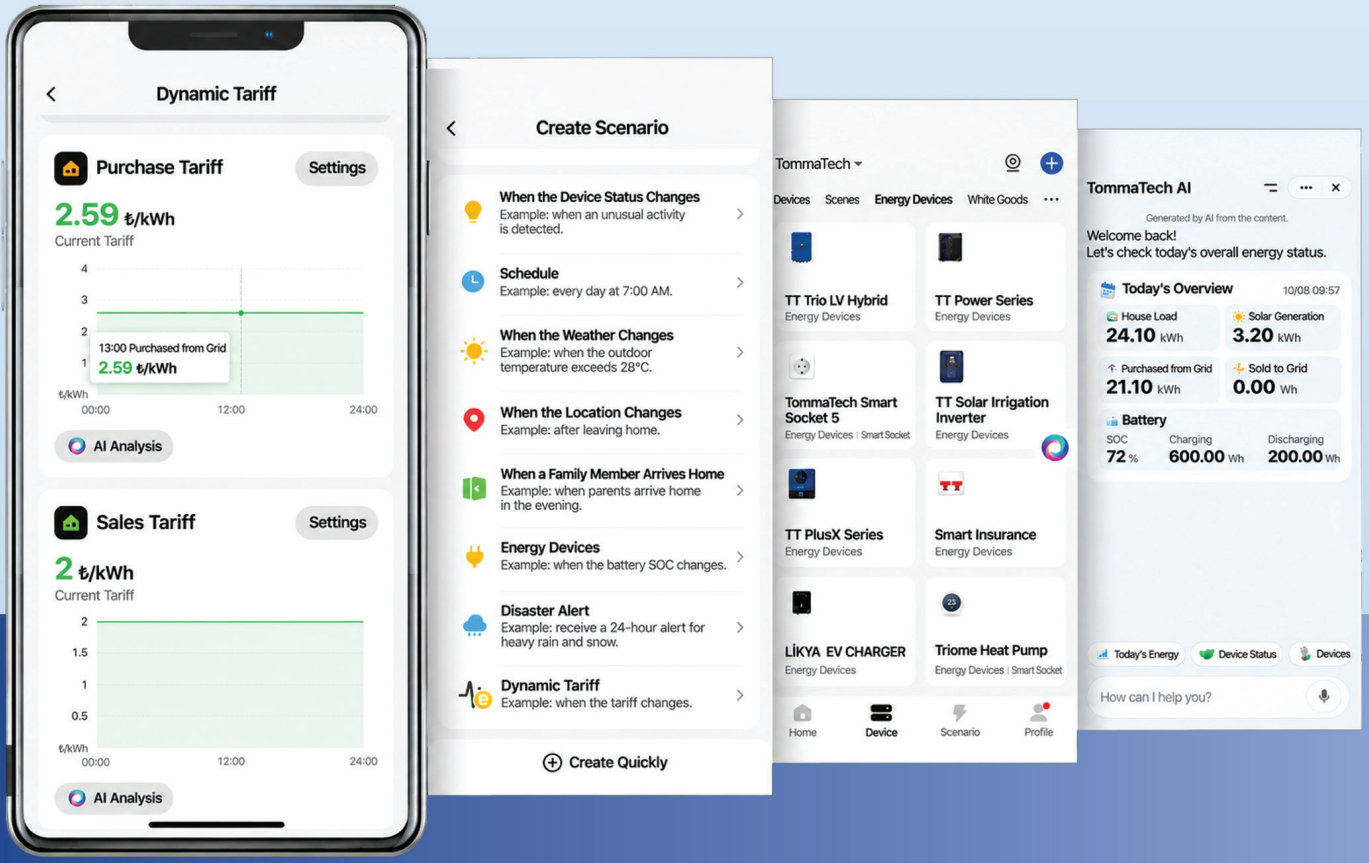
22 Sensors

23 Wi-Fi Socket

24 Hydrogen Systems

TOMMATECH GmbH
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CLOUD

Generate Your Home's Energy, Manage Your Comfort One Place.



Scenarion and Automation

Real - Time Monitoring

Remote Access

Artificial Intelligence

Compatible with Voice Assistant

Download on the App Store

Get it on Google Play

Smart Control in Industrial Batteries

- Remote data transmission with 4G infrastructure
- Real-time data monitoring and fast command response
- Compatibility with remote monitoring and management applications
- OTA software update support
- GPS / BDS based location supported monitoring
- Instant transmission of alarm, status and operating data

Thanks to the 4G infrastructure, devices can be reliably monitored and managed remotely. Real-time data transmission, fast command response, OTA software update support and GPS/BDS based location tracking provide uninterrupted control in field operations. Alarm, status and operating data are transmitted instantly, making monitoring and management processes more efficient.



WHAT IS A LITHIUM BATTERY?

TommaTech lithium batteries are long-lasting energy solutions developed to store electrical energy safely and efficiently. They stand out with their lighter, compact, and high-performance design compared to traditional batteries. They offer safe operation thanks to the advanced Battery Management System (BMS). They can be used in many applications, from solar energy systems to electric vehicles.

HOW DOES A LITHIUM BATTERY WORK?

Lithium batteries store electrical energy, making it available for use when needed. During charge, energy accumulates in the battery, while during use, the stored energy is transferred to the connected system. The Battery Management System (BMS) controls the operating values of the battery, ensuring safe and efficient operation.

WHY LITHIUM BATTERY?

Lithium batteries stand out with their long service life, high energy efficiency, and low maintenance requirements. Thanks to their lightweight and compact designs, they ensure easy installation and operation. Their longer lifespan compared to traditional batteries offers an economic advantage in the long run. Thanks to advanced protection systems, they provide reliable energy storage.

WHERE ARE LITHIUM BATTERIES USED?

TommaTech lithium batteries are used in solar energy systems, electric vehicles, industrial equipment, and custom production projects. With different capacity options, they offer solutions suitable for individual and commercial energy needs.

- **Residential and Solar Energy Systems:** By storing the energy generated from solar panels, it helps meet the energy needs in homes, country houses, and areas where the electrical grid is not available.
- **Electric Vehicles:** It provides long-lasting and efficient energy use in golf carts, electric utility vehicles, and light electric vehicles.

- **Industrial Vehicles and Equipment:** It supports the efficient continuation of business processes by meeting the energy needs of forklifts, pallet trucks, and other electric work vehicles.

- **Custom Production Battery Solutions:** With custom battery solutions developed according to the needs of different sectors, it offers capacity and technical specifications suitable for the project.

WHEN ARE THEY USED?

Lithium batteries are preferred in situations where energy needs to be stored and used when needed. It provides reliable and efficient energy use in solar energy systems, electric vehicles, and industrial equipment.

WHO USES THEM?

TommaTech lithium batteries are used by home and solar energy system owners, electric vehicle manufacturers, industrial enterprises, and companies operating in various sectors. Additionally, they offer suitable options for businesses needing custom energy storage solutions.

LITHIUM BATTERY ADVANTAGES

TommaTech lithium batteries stand out with their high performance, long service life, and reliable energy storage features.

- **Long Life:** TommaTech lithium batteries offer a longer usage period compared to traditional lead-acid batteries thanks to their cycle life of up to 6,000–8,000 cycles. By reducing the need for battery replacement, they provide a long-term cost advantage.

- **Lightweight and Compact Design:** Thanks to their lighter and more compact structures compared to traditional batteries, they provide the advantage of easy transport, installation, and use. With designs suitable for different vehicles and systems, they offer space savings in usage areas.

- **Safety:** Thanks to the advanced Battery Management System (BMS), it provides protection against overcharge, overdischarge, short circuit, and temperature changes. By continuously monitoring the battery cells, it supports safe and balanced operation.

- **High Efficiency:** Thanks to high energy efficiency and stable power output, it ensures the effective use of stored energy. It offers high performance in electric vehicles and energy storage systems.

- **Fast Charging:** With compatible chargers, they can be charged in a shorter time compared to traditional batteries. Especially in industrial applications, it increases operational efficiency by reducing waiting times.

- **Low Maintenance Requirement:** It does not require maintenance operations such as water addition and acid control, which are necessary in traditional lead-acid batteries. By providing ease of use, it reduces maintenance costs.

- **Smart Energy Management:** Thanks to advanced BMS technology, the charge status, temperature, and operating values of the battery are kept under control. With remote monitoring and management features in suitable models, it allows tracking of energy usage.

ENERGY STORAGE BATTERIES

MADE IN TURKEY



BTR-P- 51.2V 280Ah



BTR-P-51.2V 102Ah G2



BTR-P- 51.2V 206Ah

FORKLİFTS

MADE IN TURKEY



BTR-MV-51.2V-280Ah
BTR-MV-51.2V-412Ah
BTR-MV-51.2V-560Ah



BTR-MV-83.2V-280Ah
BTR-MV-83.2V-412Ah
BTR-MV-83.2V-560Ah



CUSTOMISED DESIGN

GOLF CARTS

MADE IN TURKEY



BTR-MV-51.2V-105 Ah
BTR-MV-51.2V-210 Ah



CUSTOMISED DESIGN



LIGHT ELECTRIC VEHICLES

MADE IN TURKEY



BTR-MV-76.8 V 100 Ah



BTR-MV-64 V 30 Ah



BTR-MV-76.8 V 42 Ah



BTR-MV-76.8 V 52 Ah



PALLET TRUCKS

MADE IN TURKEY



BTR-MV-25.6V-104Ah
BTR-MV-25.6V-208Ah



CUSTOMISED DESIGN



FLOOR CLEANING MACHINES

MADE IN TURKEY



BTR-MV-25.6v-208 Ah



CUSTOMISED DESIGN

Long-Lasting Lithium Battery for Golf Carts

Longer Driving Range Fast Charge Lightweight and Compact Design



For Golf Carts High-Performance Lithium Battery

5 Years Product Warranty

Power Throughout the Shift in Forklifts Continuity in Operation



BTR-MV-83.2V-560AH

Manage Energy in Forklifts

Do Not Stop the Operation.

Shorter charge times, higher availability and uninterrupted operation with lithium battery and compatible charge technology.



Store Energy Safely





Smart Energy Managment

Continuous control of cells with BIMS and balanced operation.



Safe Lithium Technology

Prismatic cell structure and laser-welded connection technology for safe, durable and long-lasting energy storage.



Uninterrupted Communication

Continuous and reliable communication with your energy system.



Ready for Harsh Conditions

Wide operating between -20°C and +60°C temperature range for different climate conditions.

LOW VOLTAGE MODULAR LITHIUM BATTERY

BTR-P-51.2V-102AH / BTR-P-51.2V-280AH / BTR-P-51.2V-206AH

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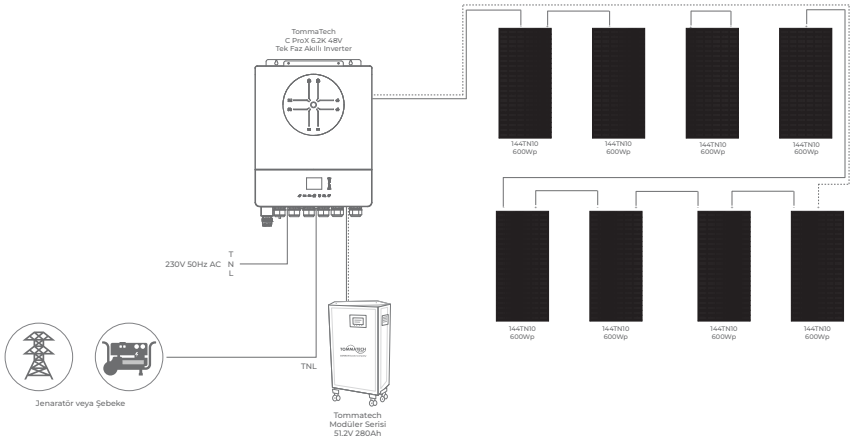


Product Features

- **Superior Performance**
- **Smart Battery Managment System** (BMS)
- **Long Life**
- **Metal Case**
- **Sustainable Energy**
- **Heat Resistance**
- **IP20 Protection Raiting**
- **Communication**

- Lithium Batteries allow parallel connection up to a maximum of 16 units without performance loss.
- Long lifespan of up to 6000-8000 cycles
- Aesthetic, compact and durable metal case design

Connection Diagram



2020

VOLTAGE - CAPACITY	BTR-P-51.2V-102AH	BTR-P-51.2V-206AH	BTR-P-51.2V-280AH
Nominal Voltage [V]	51,2	51.2	51,2
Nominal Capacity [Ah]	102	206	280
Nominal Energy [Wh]	5222,4	10547.2	14336
Recommended Charge Current [A]	50	100	100
Maximum Charge Current [A]	7	120	140
Recommended Charge Voltage [V]	56,8	57.6	56,8
Maximum Charge Voltage [V]	58,4	58.4	58,4
Recommended Discharge Current [A]	50	100	100
Continuous Discharge Current [A]	50	120	100
Maximum Discharge Current [A]	75	180A for 30s	180A for 30s
Discharge Cut-off Voltage [V]	44,8±0,2	44.8±0,2	44,8±0.2

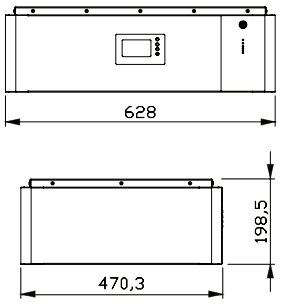
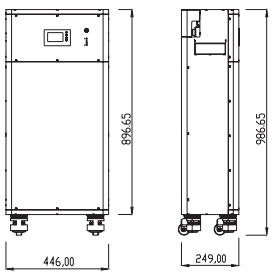
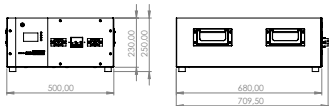
BATTERY / CELL		
Cycle Life	8000	6000
Mass Energy Density [Wh / Kg]	165	165
Volumetric Energy Density [Wh / L]	350	350
Internal Resistance [m]	0.27–0.40	0.1–0.15

STANDARD	
Overcharge Protection	Yes
Overdischarge Protection	Yes
Overcurrent Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Temperature Sensor	Yes
Adjustable Charge / Discharge Current	Yes
Battery Chemistry	Lithium Prismatic
Safety	IEC 61960 / 62133-2 / RoHS

DIMENSIONS AND WEIGHT	
Dimensions (WxDxH) [mm]	450x250x990
Weight (kg)	119 ± 0.5

OPERATING CONDITIONS	
Charge Temperature [°C]	0 ~ +60
Discharge Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ +35
Humidity (Non-condensing)	Maximum %85
Protection Class	IP20
Designed Product Life [Years]	15
Warranty Period [Years]	5

PHYSICAL SPECIFICATIONS

BTR-P-51.2V-102Ah	BTR-P-51.2V-280Ah	BTR-P-51.2V-206Ah
		

FORKLIFT BATTERY

BTR-MV-51.2V-280 AH/ BTR-MV-51.2V-412 AH/ BTR-MV-51.2V-560 AH
BTR-MV-83.2V-280 AH/ BTR-MV-83.2V-412 AH/ BTR-MV-83.2V-560 AH



Product Features

- **Superior Performance**
- **Smart Battery Managment System**
- **Long Life**
- **Metal Case**
- **Sustainable Energy**
- **Heat Resistance**
- **IP20 Protection Raiting**
- **Communication**

- Long lifespan up to 4000 cycles
- Aesthetic, compact and durable metal case design

VOLTAGE - CAPACITY	BTR-MV-51.2V 280 AH-U	BTR-MV-51.2V 412 AH	BTR-MV-51.2V 560 AH-U	BTR-MV-80V-280AH-U	BTR-MV-80V-412AH-U	BTR-MV-80V-560AH-U
Nominal Voltage [V]	51.2	51.2	51,2	80	83,2	83,2
Nominal Capacity [Ah]	280	412	560	280	412	560
Nominal Energy [Wh]	14336	121094	28672	23296	34278	46592
Recommended Charge Current [A]	140	150	150	150	150	150
Maximum Charge Current [A]	150	200	200	200	200	250
Recommended Charge Voltage [V]	57.6	57.6	57,6	90	90	90
Maximum Charge Voltage [V]	58.4	58.4	58,4	91.25	91.25	91.25
Recommended Discharge Current [A]	140	150	150	150	150	150
Continuous Discharge Current [A]	150	200	200	200	200	200
Maximum Discharge Current [A]	250A for 60s, 320A for 30s	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s
Discharge Cut-off Voltage [V]	44,8±0.2	44,8±0.2	44,8±0.2	72,8±0.2	72,8±0.2	72,8±0.2

BATTERY / CELL	
Cycle Life	4000
Mass Energy Density [Wh / Kg]	165
Volumetric Energy Density [Wh / L]	350
Internal Resistance [m]	0.27-0.40

STANDARD	
Overcharge Protection	Yes
Overdischarge Protection	Yes
Overcurrent Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Temperature Sensor	Yes
Adjustable Charge / Discharge Current	Yes
Battery Chemistry	Yes
Safety	Prismatic Type Cell in LiFePO4 Chemistry

DIMENSIONS AND WEIGHT						
Dimensions (WxDxH) [mm]	455x725x346	600x1010x382	455x725x610	455x725x346	600x1010x382	455x725x610
Weight (kg)	19	14	32	62	145	16

OPERATING CONDITIONS	
Charge Temperature [°C]	0 ~ +60
Discharge Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ +35
Humidity (Non-condensing)	Maximum %85
Protection Class	IP20
Designed Product Life [Years]	>10
Warranty Period [Years]	5

*The data and technical specifications provided in this document are for preliminary information purposes and may vary depending on product usage, system design and environmental conditions.

GOLF CART BATTERY

BTR-MV-51.2V-105 AH/ BTR-MV-51.2V-210 AH



Product Features

Superior Performance

Smart Battery Managment System

Long Life

Metal Case

Sustainable Energy

Heat Resistance

IP20 Protection Raiting

Communication

- Long lifespan up to 4000 cycles
- Aesthetic, compact and durable metal case design

VOLTAGE - CAPACITY	BTR-MV-51.2-105AH	BTR-MV-51.210AH
Nominal Voltage [V]	51,2	51,2
Nominal Capacity [Ah]	105	210
Nominal Energy [Wh]	5376	10752
Recommended Charge Current [A]	52	105
Maximum Charge Current [A]	105	210
Recommended Charge Voltage [V]	56,8	56,8
Maximum Charge Voltage [V]	58,4	58,4
Recommended Discharge Current [A]	52	105
Continuous Discharge Current [A]	105	210
Maximum Discharge Current [A]	200A for 30s	400A for 30s
Discharge Cut-off Voltage [V]	44,8±0.2	44,8±0.2

BATTERY / CELL	
Cycle Life	4000
Mass Energy Density [Wh / Kg]	165
Volumetric Energy Density [Wh / L]	350
Internal Resistance [m]	0.27-0.40

STANDARD	
Overcharge Protection	Yes
Overdischarge Protection	Yes
Overcurrent Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Temperature Sensor	Yes
Adjustable Charge / Discharge Current Battery	Yes
Chemistry	Prismatic Type Cell in LiFePO4 Chemistry

DIMENSIONS AND WEIGHT		
Dimensions (WxDxH) [mm]	366x493x268	366X770X268
Weight (kg)	46	86

OPERATING CONDITIONS	
Charge Temperature [°C]	10 ~ +60
Discharge Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ +35
Humidity (Non-condensing)	Maximum %85
Protection Class	IP20
Designed Product Life [Years]	>10
Warranty Period [Years]	5

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PALLET TRUCK BATTERY

BTR-MV-25.6V-104 AH/ BTR-MV-25.6V-208 AH



Product Features

Superior Performance

Smart Battery Managment System

Long Life

Metal Case

Sustainable Energy

Heat Resistance

IP20 Protection Raiting

Communication

- Long lifespan up to 4000 cycles
- Aesthetic, compact and durable metal case design

VOLTAGE - CAPACITY	BTR-MV-25.6-105AH	BTR-MV-25.6-210AH
Nominal Voltage [V]	25,6	25,6
Nominal Capacity [Ah]	104	208
Nominal Energy [Wh]	2662	5324
Recommended Charge Current [A]	52	104
Maximum Charge Current [A]	104	208
Recommended Charge Voltage [V]	28,4	28,4
Maximum Charge Voltage [V]	29,2	29,2
Recommended Discharge Current [A]	52	104
Continuous Discharge Current [A]	104	208
Maximum Discharge Current [A]	208A for 30s	400A for 30s
Discharge Cut-off Voltage [V]	22,4±0.2	22,4±0.2

BATTERY / CELL	
Cycle Life	4000
Mass Energy Density [Wh / Kg]	165
Volumetric Energy Density [Wh / L]	350
Internal Resistance [m]	0.27-0.40

STANDARD	
Overcharge Protection	Yes
Overdischarge Protection	Yes
Overcurrent Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Temperature Sensor	Yes
Adjustable Charge / Discharge Current Battery	Yes
Chemistry	Prismatic Type Cell in LiFePO4 Chemistry

DIMENSIONS AND WEIGHT		
Dimensions (WxDxH) [mm]	145x590x605	145x590x605
Weight (kg)	51	71

OPERATING CONDITIONS	
Charge Temperature [°C]	0 ~ +60
Discharge Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ +35
Humidity (Non-condensing)	Maximum %85
Protection Class	IP20
Designed Product Life [Years]	>10
Warranty Period [Years]	5

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CLEANING VEHICLE BATTERY

BTR-MV-25.6-104 AH



Product Features

- **Superior Performance**
- **BMS** — **Smart Battery Managment System**
- **Long Life**
- **Metal Case**
- **Sustainable Energy**
- **Heat Resistance**
- **IP20 Protection Raiting**
- **Communication**

- Long lifespan up to 4000 cycles
- Aesthetic, compact and durable metal case design

VOLTAGE - CAPACITY	BTR-MV-25.6-104AH
Nominal Voltage [V]	25,6
Nominal Capacity [Ah]	104
Nominal Energy [Wh]	2662
Recommended Charge Current [A]	52
Maximum Charge Current [A]	104
Recommended Charge Voltage [V]	28,4
Maximum Charge Voltage [V]	29,2
Recommended Discharge Current [A]	52
Continuous Discharge Current [A]	104
Maximum Discharge Current [A]	208A for 30s
Discharge Cut-off Voltage [V]	22,4±0.2

BATTERY / CELL	
Cycle Life	4000
Mass Energy Density [Wh / Kg]	165
Volumetric Energy Density [Wh / L]	350
Internal Resistance [m]	0.27-0.40

STANDARD	
Overcharge Protection	Yes
Overdischarge Protection	Yes
Overcurrent Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Temperature Sensor	Yes
Adjustable Charge / Discharge Current Battery	Yes
Chemistry	Prismatic Type Cell in LiFePO4 Chemistry

DIMENSIONS AND WEIGHT	
Dimensions (WxDxH) [mm]	145x590x605
Weight (kg)	51

OPERATING CONDITIONS	
Charge Temperature [°C]	0 ~ +60
Discharge Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ +35
Humidity (Non-condensing)	Maximum %85
Protection Class	IP20
Designed Product Life [Years]	>10
Warranty Period [Years]	5

*The data and technical specifications provided in this document are for preliminary information purposes and may vary depending on product usage, system design and environmental conditions.

LIGHT ELECTRIC VEHICLE BATTERY

BTR - MV-76.8V-30AH / BTR - MV-76.8V-42AH /BTR - MV- 76.8V-52AH
BTR - MV-76.8V-100AH / BTR - MV-76.8V-280AH /BTR - MV- 64V-30AH



Product Features

- **Superior Performance**
- **Smart Battery Managment System** (BMS)
- **Long Life**
- **Metal Case**
- **Sustainable Energy**
- **Heat Resistance**
- **IP20 Protection Raiting**
- **Communication**

- Long lifespan up to 4000 cycles
- Aesthetic, compact and durable metal case design

GERİLİM - KAPASİTE	BTR-MV-76.8V 30AH	BTR-MV-76.8V 42AH	BTR-MV-76.8V 52AH	BTR-MV-76.8V 100AH	BTR-MV-76.8V 280AH	BTR-MV-64V 30AH
Nominal Voltage [V]	76,8	76,8	76,8	76,8	76,8	64
Nominal Capacity [Ah]	30	42	52	100	280	30
Nominal Energy [Wh]	2304	3225	3840	7680	21504	1920
Recommended Charge Current [A]	15	21	25	50	100	15
Maximum Charge Current [A]	30	35	40	7585,2	140	30
Recommended Charge Voltage [V]	85,2	85,2	85,2	86,4	85,2	85,2
Maximum Charge Voltage [V]	86,4	86,4	86,4	50	86,4	86,4
Recommended Discharge Current [A]	15	21	25	100	140	15
Maximum Discharge Current [A]	30	42	52		200	30

BATTERY / CELL	
Cycle Life	4000
Mass Energy Density [Wh / Kg]	165
Volumetric Energy Density [Wh / L]	350
Internal Resistance [m]	0.27-0.40

STANDARD	
Aşırı Şarj Koruması	Yes
Aşırı Deşarj Koruması	Yes
Aşırı Akım Koruması	Yes
Kısa Devre Koruması	Yes
Aşırı Sıcaklık Koruması	Yes
Sıcaklık Sensörü	Yes
Ayarlanabilir Şarj / Deşarj Akımı	Yes
Pil Kimyası	Prismatic Type Cell in LiFePO4 Chemistry

DIMENSIONS AND WEIGHT						
Dimensions (WxDxH) [mm]	252x311x168	300X178X38	348x345x182	470x520x202,50	651x802x360	420x520x202,50
Weight (kg)	19	14	32	62	145	16

OPERATING CONDITIONS	
Charge Temperature [°C]	0 ~ +60
Discharge Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ +35
Humidity (Non-condensing)	Maximum %85
Protection Class Design	IP20
Life [Years]	8
Warranty Period [Years]	5
Series Connection	No
Parallel Connection	No
Communication	CAN / RS485 / Bluetooth
Display	LCD
Outer Cabinet	Metal Case

LITHIUM BATTERY CHARGERS



Product Features

- Overtemperature Protection
- Short Circuit Protection
- Reverse Connection Protection
- Overcharge Protection
- Smart Display
- Current Limiting Function
- Automatic Shutdown
- Overcurrent Protection
- Monomer Laminated Cell Technology
- Smart Protection Feature
- Overvoltage Protection
- Timing Protection
- Wide Voltage Protection
- Constant Current Constant Voltage

TommaTech charger maximizes battery performance and ensures the best communication between the charger and the battery.

Smart Charge Management

Excellent charge efficiency. Due to the smart charge algorithm applied by the BMS, lithium-ion batteries lose less energy during the charge/discharge cycle compared to other battery types (Battery Management System). This is especially useful when a large amount of energy is stored (such as in EVs and solar energy storage).

TommaTech Smart BMS ensures battery safety and increases charge efficiency. When the battery is at low voltage, it can be charged at low current to ensure battery safety. When the battery is less than 10%, it emits a warning sound to indicate that it needs to be charged.

HOW TO CHARGE?

1 

Go to the charging station:

Go to the forklift charging station, plug in the charge cable and apply the parking brake.

2 

Automatic Monitor:

It monitors the suitable conditions for charging and starts the automatic charging process.

3 

When fully charged:

When the suitable condition is met, it stops charging.

Smart Display

When the charger is connected, it shows the battery status.



Where to Charge TommaTech Lithium-Ion Batteries?

Convenience

- ✓ Batteries can be charged on the vehicle.
  No battery replacement or battery storage room is required.
- ✓ The charger, in a way that encourages the operator to charge correctly, can be placed anywhere in the facility.

Information

Lead-acid batteries require extra batteries for replacement and a battery storage room. In addition, harmful gases during charging require a special charging room with a ventilation system to prevent.
This, as an extra expense to you, returns.

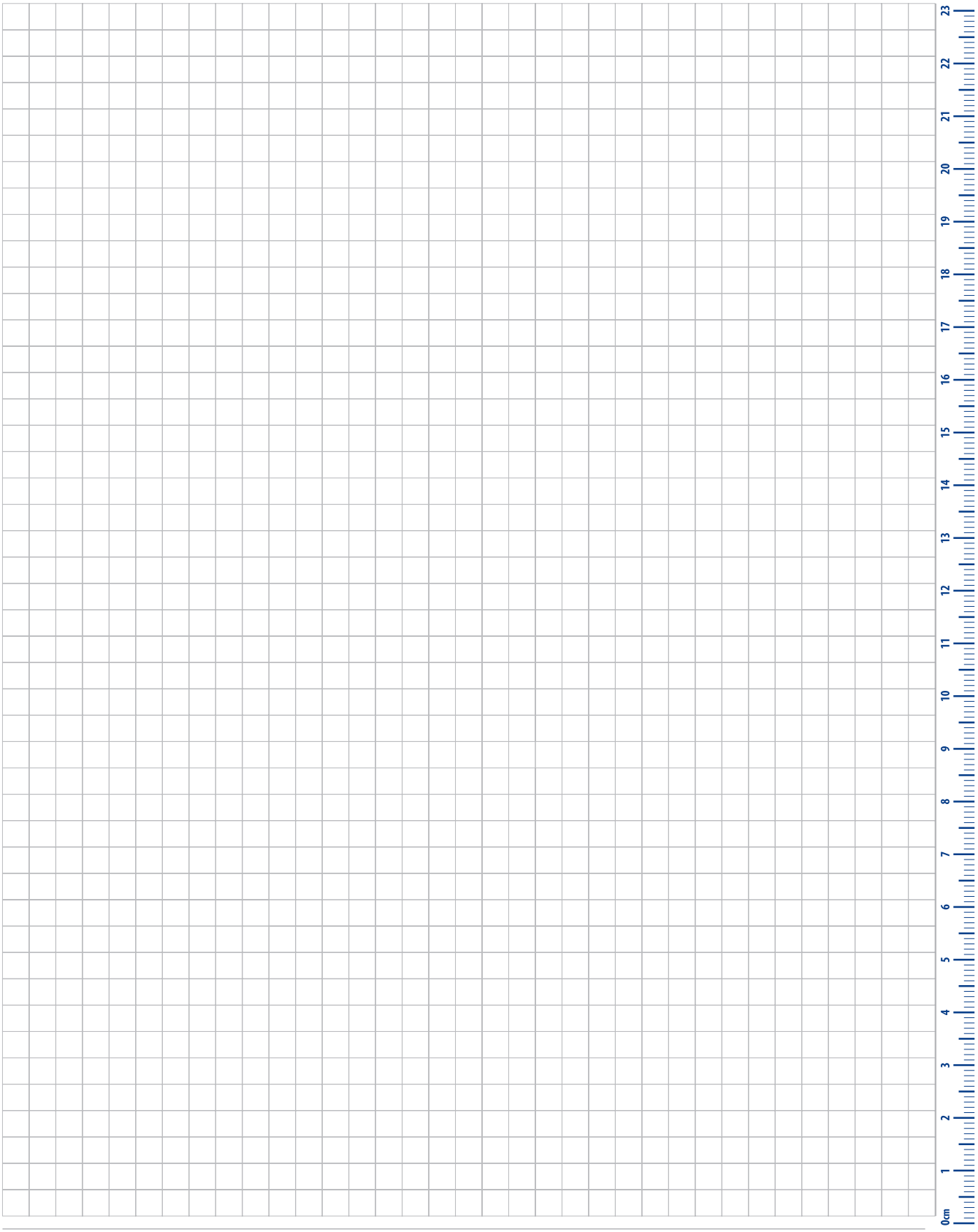

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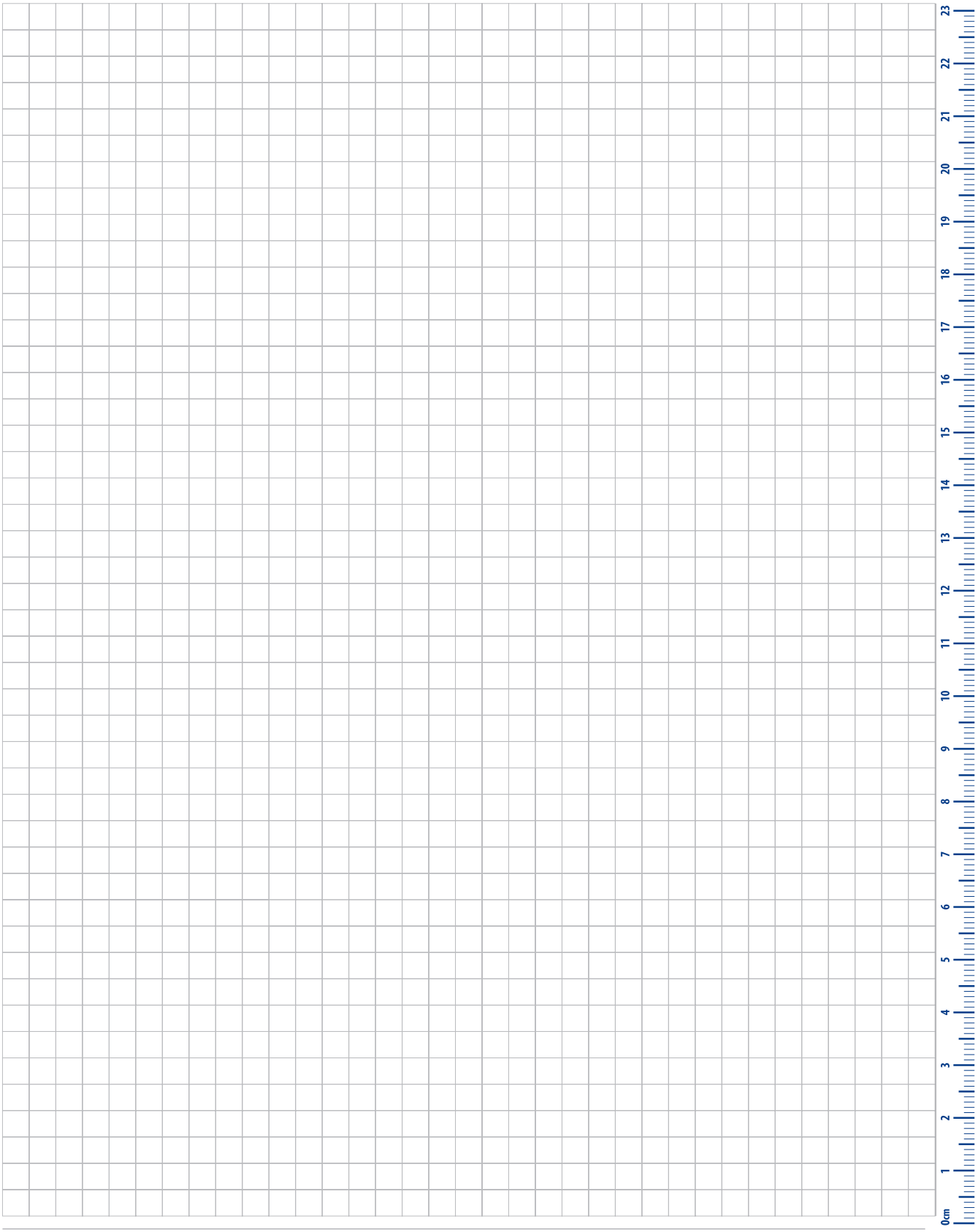
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