




GERMAN-based company ●●●

## MARINE AND FLEXIBLE PANEL Catalogue







 Garching - M n h Manufacturing Facility / Germany



 Antalya Manufacturing Facility / T rkiye



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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.

# T e c h n o l o g y

## 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.

# O p t i m i z a t i o n

"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 costs."

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

# M a n u f a c t u r i n g

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.

# M i l e s t o n e s

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.

# A u t o m a t i o n

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.





2014



60+



2

## T r a n s p a r e n c y

### 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.

## E x p e r i e n c e

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.

## C o m m i t m e n t

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.

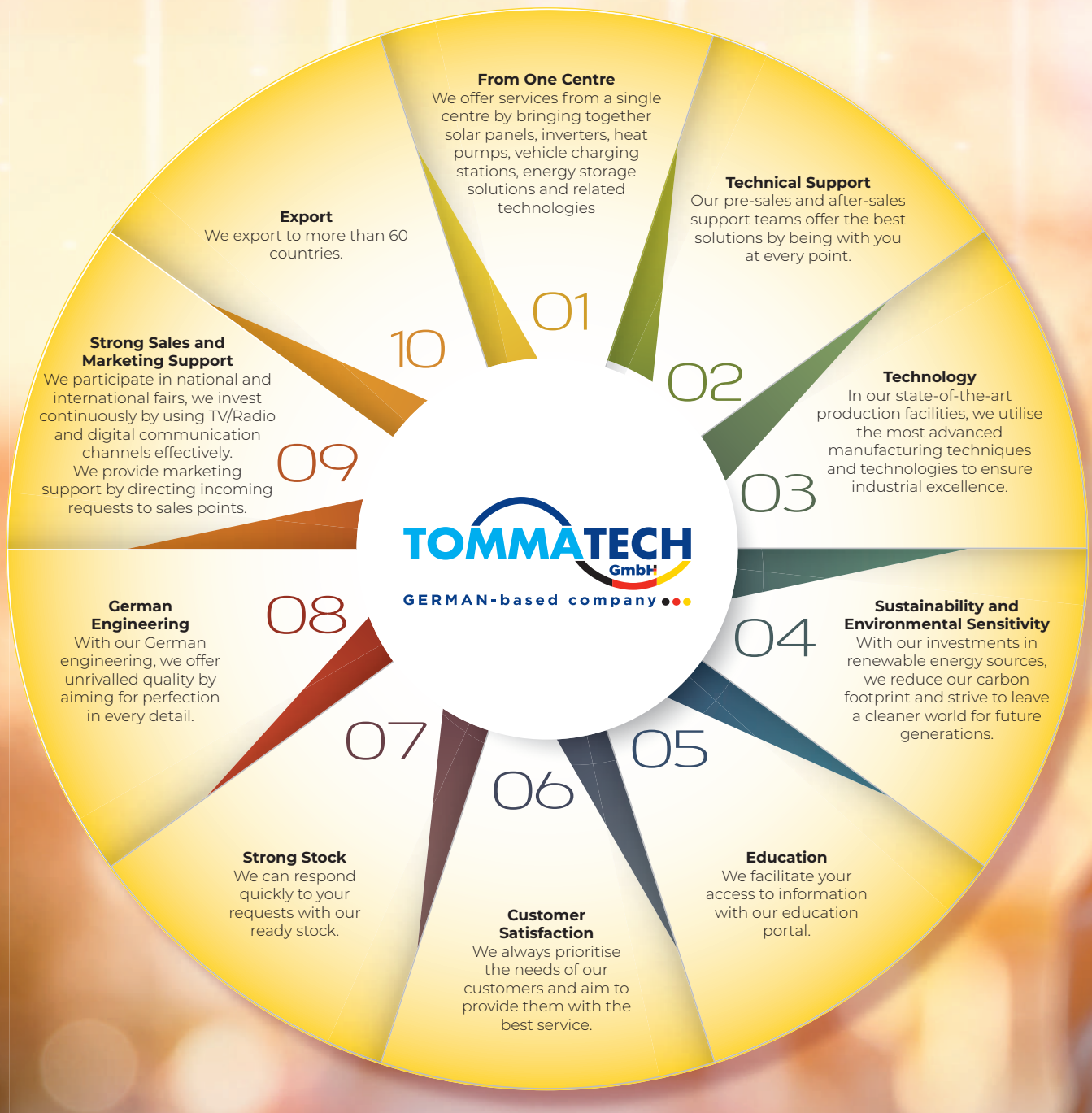
Our customers and partners can rely on our strong commitment. We employ innovative and sustainable technologies to ensure that our solutions are not only efficient but also environmentally friendly. Every project is executed with the highest standards of quality and a focus on long-term customer satisfaction.

## H o m e S o l u t i o n

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.

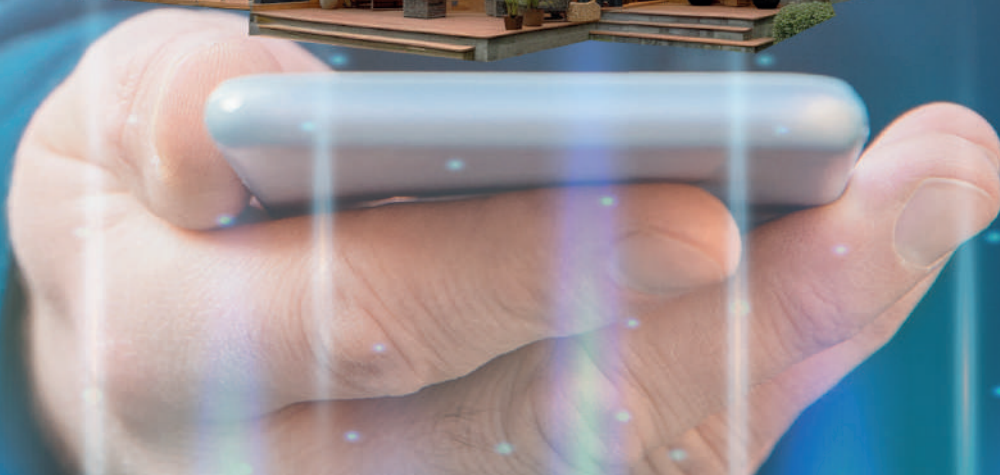
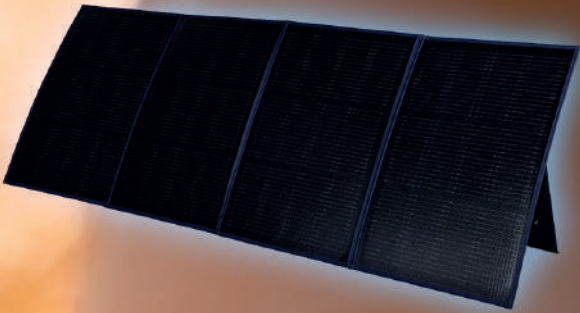
Our Home Solution products enable customers to meet their energy needs sustainably while saving costs. Homes equipped with our technology benefit from intelligent energy management and a reduced carbon footprint. Our solutions are not only environmentally friendly but also user-friendly, allowing every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



with TommaTech

*You are in control!*





## FLEXIBLE PANEL

TT-FLEX-110

TT-FLEX-110 FB

TT-FLEX-170

TT-FLEX-170 FB

CUSTOM DESIGN



## LITHIUM BATTERY

12,8V 102 AH

12,8V 204 AH

25,6V 102 AH

25,6 V 204 AH





## EASY LIFE

TT-200-48TN10-PRT

TT-FLEX-BAG-110

TT-FSC-25

TT-FSC-15



## MOBILE POWER STATIONS

MGI-500W

MGI-500W-PLS

MGI-1000W-PLS

MGI-2200W-PLS



## ENERGY MANAGEMENT SYSTEM

TommaTech Portal



## WHAT IS A FLEXIBLE PANEL?

Compared to standard solar panels, it is an ultra-light, thin, high-performance solar panel with the ability to flex according to the design. The new generation flexible panel, which contains ETFE (Ethylen Tetra Fluoro Ethylen) polymer with high light transmittance, durable fibreglass and high efficiency IBC solar cell in its structure, is produced in international quality standards with 7-layer advanced lamination technology.

## HOW DOES THE FLEXIBLE PANEL WORK?

Flexible panels use an active layer that interacts with sunlight. Sunlight is converted into electrical energy in the semiconductor materials of the active layer. This energy is converted into usable electrical energy through a circuit to which the flexible solar panel is connected.

## WHY FLEXIBLE PANEL?

These products are much lighter than standard solar panels, easy to apply and provide advantages of use since they can stretch up to a certain angle. IBC Solar cells, which are preferred in flexible panels, are a cell type built on a copper base. Flexible Panels are resistant to power losses due to breakage and corrosion when bent or left in a humid environment, compared to conventional solar panels. Flexible panels are one of the most important energy solutions of users in low radiation and shadow condition thanks to the Bypass diodes and efficient cell structure.

## WHERE IS FLEXIBLE PANEL USED?

Boats, Caravans, Vehicles and Camping Equipment: Flexible solar panels can be used as an energy source on boats, electric vehicles or caravans. They are also an ideal solution for energising devices used for outdoor activities such as camping equipment.

■ **Portable Electronic Devices:** Flexible solar panels can be integrated in chargers used in portable electronic devices such as mobile phones, tablets, laptops. This allows users to utilise solar energy on the go.

■ **Wearable Technologies:** Flexible solar panels can be used to provide energy in wearable devices. For example, they can be used as an energy source in wearable technologies such as heated jackets.

■ **Building Integration:** Flexible solar panels can be integrated into building elements such as roofs, cladding or windows of buildings. In this way, buildings can generate their own energy using solar energy.

## WHEN TO USE?

It can be used whenever there is sun and daylight.

## WHO USES IT?

Flexible solar panels are often favoured by boat and caravan owners, campers and those seeking an off-grid lifestyle.



## ADVANTAGES OF FLEXIBLE PANEL

TommaTech flexible panels are manufactured in Turkey.

■ **Flexibility:** IBC Solar cells, which are preferred in flexible panels, are a cell type built on a copper base. TommaTech Flexible Panels are resistant to power losses due to breakage and corrosion when bent or left in a humid environment compared to conventional solar panels. TommaTech Flexible Panels are one of the most important energy solutions of users in low radiation and shadow conditions thanks to the Bypass diodes and efficient cell structure.

■ **Lightweight:** It stretches up to a maximum of 30 degrees and is lightweight, allowing it to fit perfectly on any surface. This allows the panels to be mounted on different surfaces, such as curved or flexible. Compared to conventional panels, it provides greater design flexibility.

■ **Durability:** The combination of ETFE and fibreglass sheet makes the panel much more durable. IBC Solar cells, which are preferred in flexible panels, are a cell type built on a copper base. TommaTech Flexible Panels, which contain ETFE polymer with high light transmittance, durable fibreglass and high efficiency IBC Solar Cell, are resistant to power losses caused by breakage and corrosion when bent or left in a humid environment compared to traditional solar panels. The IP68 junction box provides a wide range of uses while providing water resistance.

■ **Efficiency:** While providing maximum light absorption thanks to the prism surface, TommaTech Flexible Panels are one of the most important energy solutions of users in low radiation and shadow conditions thanks to the Bypass diodes and efficient cell structure.

■ **Ease of Installation:** They can easily fit on surfaces on the boat, on the roof of the caravan or on the tent without any additional equipment and can be attached to the surface thanks to the stainless bird eye on the edges or mounted with industrial silicone adhesive.

■ **Special Design:** In the series with white and black colour options, production can be made in different power, size and shape options according to your needs.



# TOMMATECH FLEXIBLE PANEL SERIES

TT-FLEX-110

TT-FLEX-170

TT-FLEX-110-FB

TT-FLEX-170-FB



TommaTech New Generation Flexible Panel, which contains ETFE polymer with high light transmittance, durable fibreglass and high efficiency IBC solar cell in its structure, is produced in international quality standards with 7-layer advanced lamination technology. The combination of ETFE and fibreglass board makes the panel much more durable. It flexes up to a maximum of 30 degrees and is lightweight and adapts to any surface. TommaTech Flexible Panel Series, available in 110Wp and 170Wp power options, has the advantage of being used in many application areas such as boats, caravans, roofs and many similar applications. The series is available in white and black colours and can be produced in different power and size options according to your needs.

## Product Features



**Prism Surface**



**Excellent Light Transmittance with ETFE**



**IBC Cell Technology**



**Flexible Design**



**Easy Installation**



**IP68 Protection Class**



**2 YEARS Product Guarantee**



**Stainless Bird Eye**

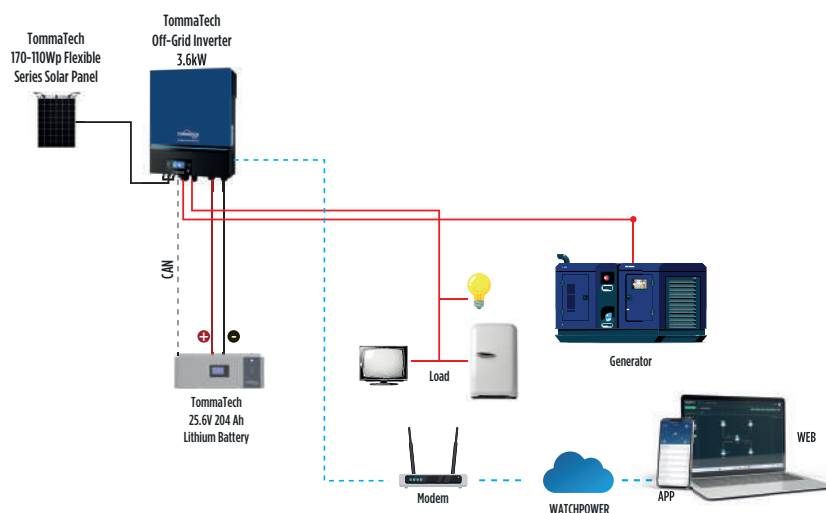


**Customised Production**



**Technical Support**

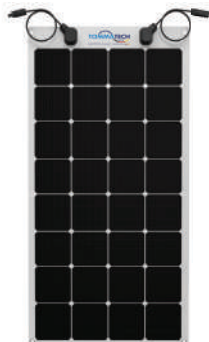
## Connection Diagram





MODEL	TT-FLEX-110 110Wp	TT-FLEX-170 170Wp
Max Power (Pmax)[Wp]	110	170
Module Efficiency (%)	17.5	18.5
Power Tolerance [W]	0~+5	
Maximum Power Voltage (Vmp)[V]	18.84	28.82
Maximum Power Current (Imp)[A]	5.90	5.90
Open Circuit Voltage (Voc)[V]	22.80	34.60
Short Circuit Current (Isc)[A]	6.33	6.33
Temperature Coefficient (Pmax)	0.29%/°C	
Temperature Coefficient (Voc)	-55.68mV/°C	-83.70mV/°C
Temperature Coefficient (Isc)	2.9mA/°C	
Dimensions (mm)	1134x555x3	1134x811x3
Weight (kg)	2.3	3.2
Maximum System Voltage [VDC]	600	
Maximum Series Fuse Current [A]	15	
Protection Class	IP68	
Number of ByPass Diodes	2	3

**TT-FLEX-110**



**TT-FLEX-170**



**TT-FLEX-110-FB**



**TT-FLEX-170-FB**

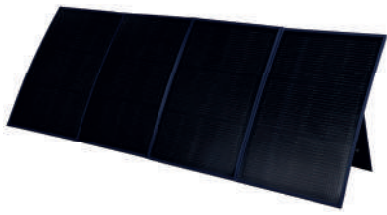


\* The above data were obtained under standard test conditions (STC): 1000 W/m<sup>2</sup> solar radiation, 1.5(AM) air mass and 25°C cell temperature. The measurement uncertainty for all panels is 6%. Actual data will be subject to contractual agreements. The technical values in this document are for information purposes only and are not part of the contracts. Technical specifications in this document may vary. For detailed information, refer to the 'Installation Mounting Guide'.

\* TommaTech® GmbH reserves the right to change product specifications without prior notice.

# TOMMATECH FOLDABLE SOLAR PANEL

## TT200-48TN10-PRT

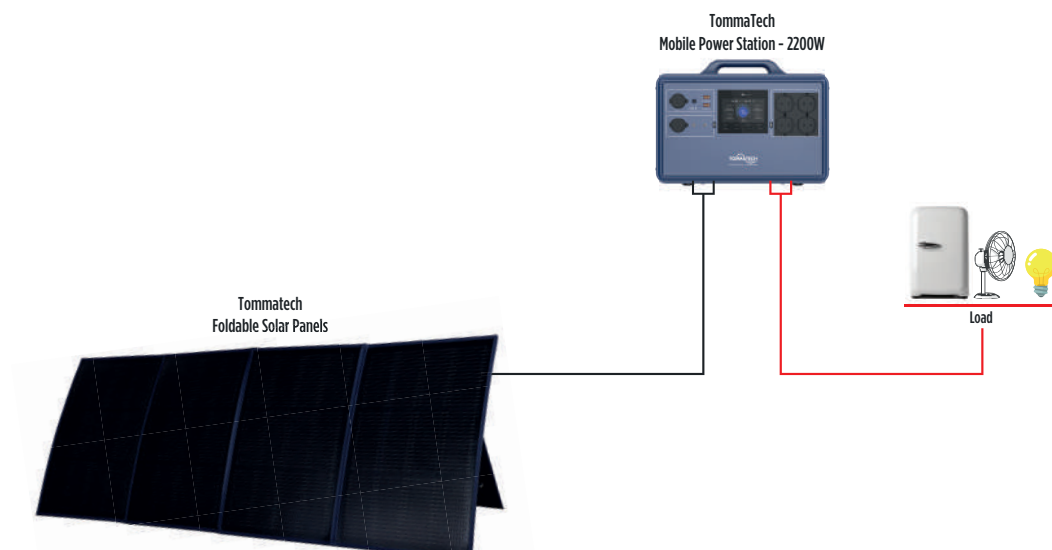


The TommaTech 200W Transportable Solar Panel Series, in combination with TommaTech Power Stations, provides efficient storage of generated energy. With its highly compatible architecture, it offers integration with a variety of devices, making it easy to access uninterrupted and sustainable energy. Ideal for outdoor use with its lightweight and durable structure, the portable solar panel series provides a reliable and environmentally friendly solution wherever you need energy.

### Product Features



### Connection Diagram





MODEL	TT200-48TN10-PRT 200Wp
Max Power (Pmax)	200
Power Tolerance	0~+5
Module Efficiency (%)	20,14
Maximum Power Voltage (Vmp)	30,14
Maximum Power Current (Imp)	6,63
Open Circuit Voltage (Voc)	34,80
Short Circuit Current (Isc)	6,84
Maximum System Voltage (V DC)	1000
Maximum Series Fuse Current (A)	15

SOLAR HÜCRE	
Cell Type	TOPCon N-Type
Number of Cell Busbars (Piece)	16
Cell Efficiency (%)	25,1
Cell Size (mm)	182 x 91
Number of Cells (Piece)	48

Temperature Coefficient	
Temperature Coefficient (Isc)	0.040%/°C
Temperature Coefficient (Voc)	0.260%/°C
Temperature Coefficient (Pmax)	-0.320%/°C

MECHANICAL PROPERTIES	
Folded Product Size (WidthLengthThickness)(mm)	420x600x32
Open Product Size (EnxLengthxThickness)(mm)	1680x600x5
Product Weight (Kg)	4,4
Packaged Product Weight (Kg)	5,5
Junction Box Cable Length (mm)	600
Number of Panel Wings (Piece)	3
Connector	MC4
External Coating	Fabric
Protection Class	IP54
Warranty Period	2 Years (24 Months)

Perspective View



Front View



Side View



\* The above data were obtained under standard test conditions (STC): 1000 W/m<sup>2</sup> solar radiation, 1.5(AM) air mass and 25°C cell temperature. The measurement uncertainty for all panels is 3%. Actual data will be subject to contractual agreements. The technical values in this document are for information purposes only and are not part of the contracts. Technical specifications in this document may vary. For detailed information, refer to the 'Installation Mounting Guide'.

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# TOMMATECH FOLDABLE SOLAR PANEL

## TT-FLEX-BAG-110



Easy to set up, easy to carry and easy to use, the TommaTech Foldable Solar Panel is a powerful companion ready to take you on your next adventure. Designed to withstand harsh operating conditions, the high performance solar panel offers a practical and reliable solution for emergencies. TommaTech Foldable Solar Panel, which contains high light transmittance ETFE polymer, durable fibreglass sheet and high efficiency IBC solar cell in its structure, is produced in international quality standards with 7-layer advanced lamination technology. With TommaTech foldable solar panels, you can directly charge your phone or tablet with USB power output, while at the same time you can get up to 110W instantaneous power output with solar connectors. You can also increase capacity by connecting multiple products together. Models can be customized for your different options. The Supporting leg allows the panel to be adjusted to the optimum angle for maximum performance. You can make adjustments as the position of the sun changes.

### Product Features



**Prism  
Surface**



**Excellent Light  
Transmittance with  
ETFE**



**IBC Cell  
Technology**



**Technical Support**



**Expandable  
Capacity**



**2 YEAR  
Product  
Warranty**



**Multiple Device  
Support**

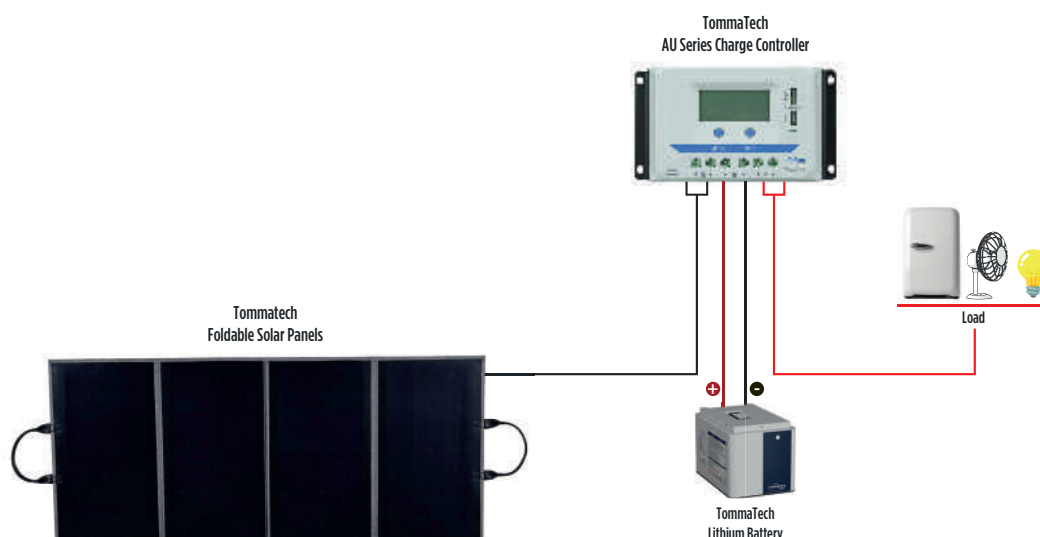


**0-360 Degree  
Sun Adjustable  
Angle**



**Compact  
Foldable  
Portable**

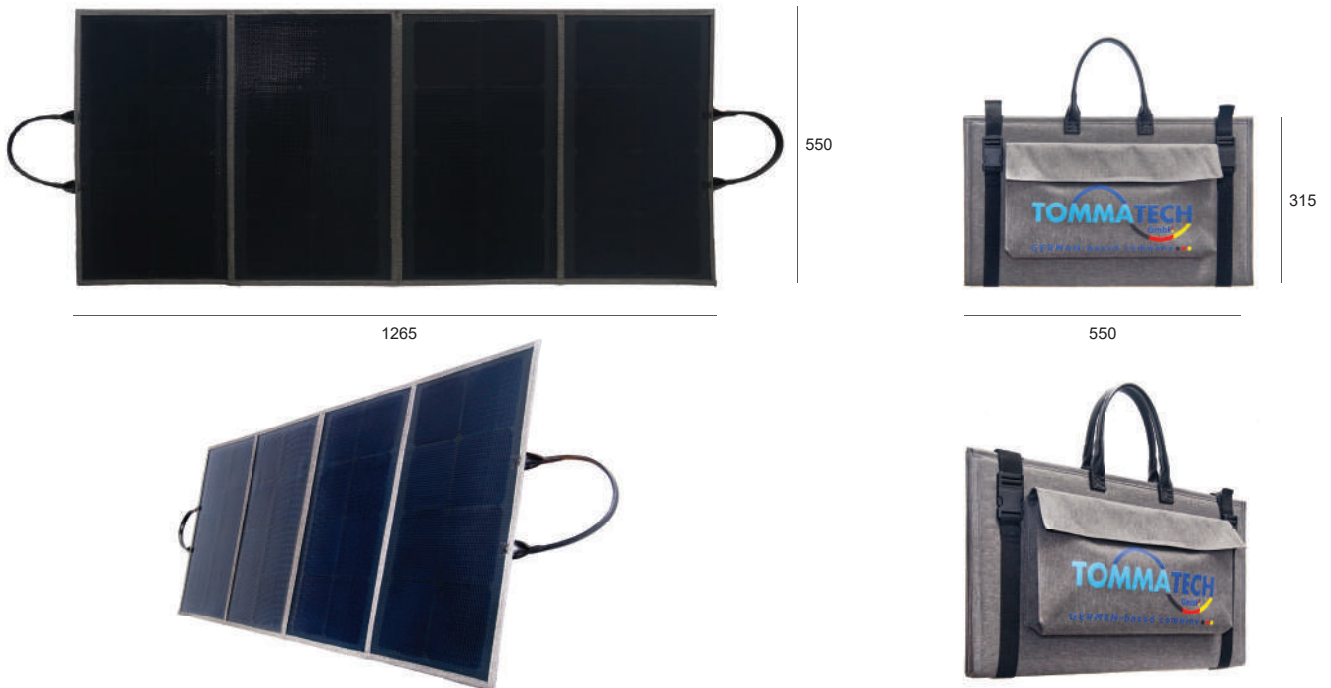
### Connection Diagram





MODEL	TT-FLEX-BAG-110 110Wp
Max Power (Pmax)[Wp]	110 Wp
Power Tolerance [W]	0~+5W
Maximum Power Voltage (Vmp)[V]	18.84
Maximum Power Current (Imp)[A]	5.84
Open Circuit Voltage (Voc)[V]	22.80
Short Circuit Current (Isc)[A]	6.15
Temperature Coefficient (Pmax)	-0.29%/°C
Temperature Coefficient (Voc)	-55.68mV/°C
Temperature Coefficient (Isc)	2.9mA/°C
Dimensions (mm)	1265x550x6 / 550x315x24
Weight (kg)	4
Maximum System Voltage [VDC]	1000V DC
Maximum Series Fuse Current [A]	15A
Protection Class	IP68
Junction Box Cable Length (mm)	600
Connector	MC4
USB Output	QC 3.0 Fast Charging 5V-9V-12V
External Coating	Fabric

Unit:mm



\* The above data was obtained under standard test conditions (STC): 1000 W/m<sup>2</sup> solar radiation, 1.5(AM) air mass and 25°C cell temperature. The measurement uncertainty for all panels is 6%. Actual data will be subject to contractual agreements. The technical specifications in this document are for informational purposes only and do not form part of any contract. Technical specifications in this document may vary. For detailed information, please refer to the "Installation and Assembly Manual".

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# TOMMATECH EASY LIFE

## TT-FSC-25



The TommaTech Easy Life series Foldable Solar Charging Panel provides direct solar power to portable chargers, smartphones, tablets or other USB or Type-c devices, creating a versatile energy solution. Multiple Device Charging Support, Openable Zippered Pocket, Hanger and Hook are among the features of the product. By connecting your phone's charging cable to the USB port in the pocket of the TommaTech Foldable Charging Panel, you can easily and quickly start the charging process from clean and renewable solar energy.

### Product Features



**Prism  
Surface**



**Excellent Light  
Transmittance with  
ETFE**



**IBC Cell  
Technology**



**Ultra  
Light**



**Compact  
Foldable  
Portable**



**Excellent  
Endurance  
Capacity**



**2 YEARS  
Product  
Guarantee**



**Technical  
Support**

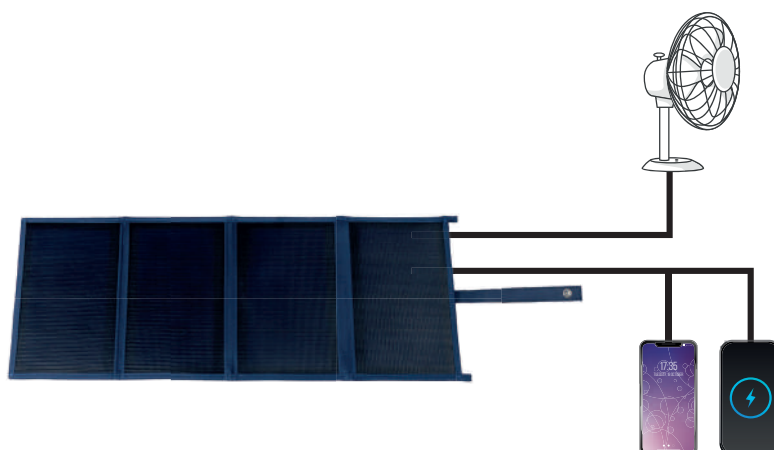


**Waterproof  
Fabric**



**Multiple  
Device Support**

### Connection Diagram





MODEL	TT-FSC-25
Max Power (Pmax)[Wp]	25
Maximum Power Voltage (Vmp)[V]	9.90
Maximum Power Current (Imp)[A]	2.55
Open Circuit Voltage (Voc)[V]	11.41
Short Circuit Current (Isc)[A]	2.70
Temperature Coefficient (Pmax)	-0.29%/°C
Temperature Coefficient (Voc)	-27.84mV/°C
Temperature Coefficient (Isc)	2.9mA/°C
Dimensions (mm)	698x268x4 / 175x268x40
Weight (kg)	0.8
Output Ports	USB-A / TYPE-C
USB Output Voltage	QC 3.0 Fast Charging 5V-9V-12V
Maximum Charge Current [A]	3
External Coating	Fabric

### PHYSICAL PROPERTIES

Unit:mm

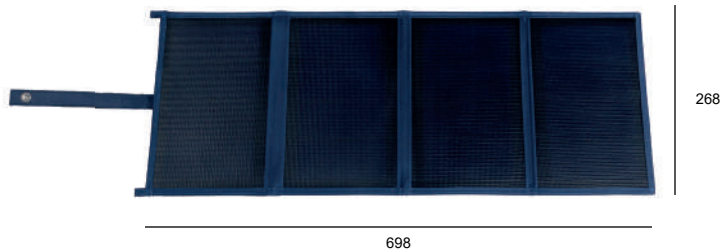
Front View



Side View

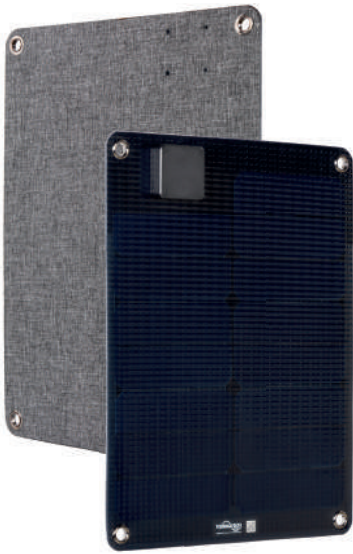


Open View



# TOMMATECH EASY LIFE

## TT-FSC-15



Mobile Solar Charging Panels provide power directly from the sun to portable chargers, smartphones, tablets or other USB devices, creating a versatile energy solution. You can charge your devices while sunbathing, fill your powerbank while walking, charge your devices in the stroller. You can run your USB fans and charge your tablet. You can easily charge your different devices with the USB and Type-C compatible dual input feature included in the product.

### Product Features



**Prism  
Surface**



**Excellent Light  
Transmittance with  
ETFE**



**IBC Cell  
Technology**



**Ultra  
Light**



**QC3 Fast  
Charging  
Technology**



**Excellent  
Endurance  
Capacity**



**2 YEARS  
Product  
Guarantee**



**Technical  
Support**

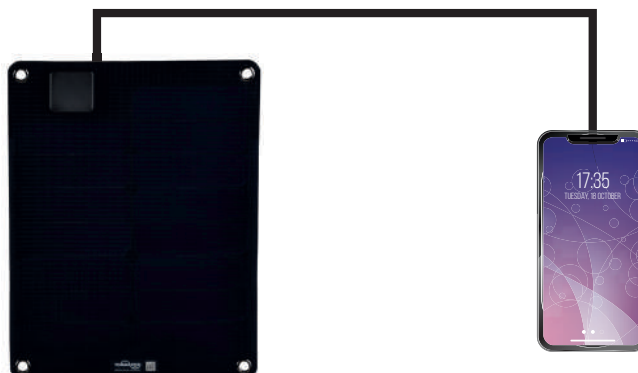


**Easy to  
Carry**



**Multiple Device  
Support**

### Connection Diagram



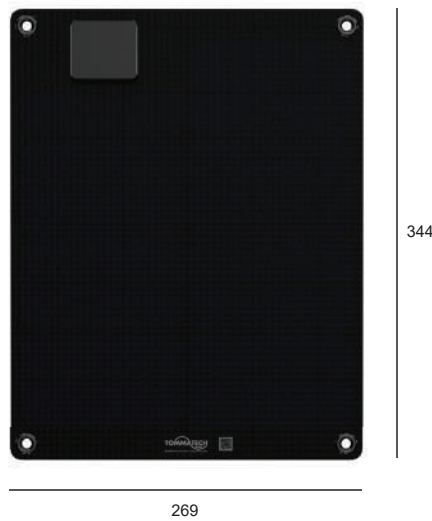


MODEL	TT-FSC-15
Max Power (Pmax)[Wp]	15
Maximum Power Voltage (Vmp)[V]	9.31
Maximum Power Current (Imp)[A]	1.63
Open Circuit Voltage (Voc)[V]	10.81
Short Circuit Current (Isc)[A]	1.72
Temperature Coefficient (Pmax)	-0.29%/°C
Temperature Coefficient (Voc)	-26.1mV/°C
Temperature Coefficient (Isc)	2.90mA/°C
Dimensions [mm]	269x344x3
Weight (kg)	0.415
Output Ports	USB-A / TYPE-C
USB Output Voltage	5V/ 9V/ 12V
Maximum Charge Current[A]	3

## PHYSICAL PROPERTIES

Unit:mm

Front View



Side View



# MOBILE POWER STATION

## MGI-R-500W

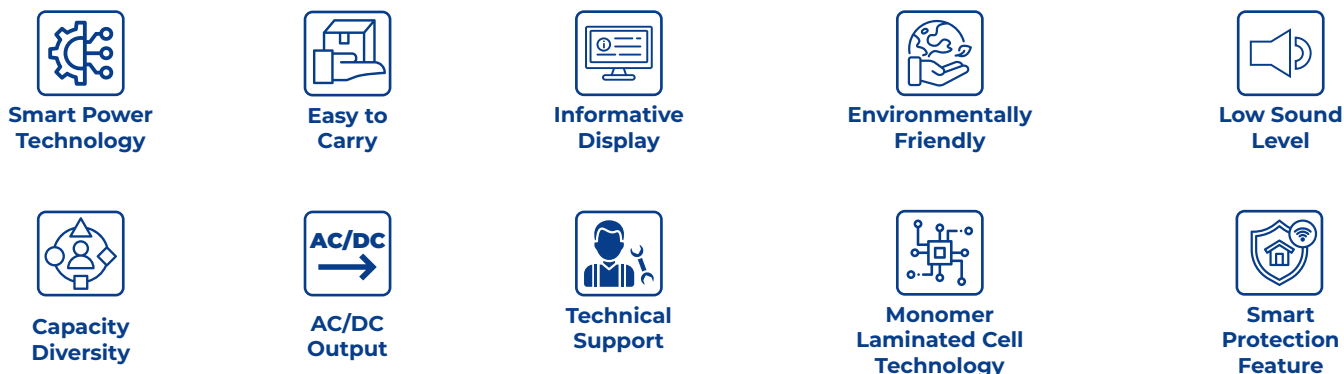


Thanks to its expandable design, the TommaTech Next Generation Power Station can be upgraded up to 6720Wh with two additional battery packs. Monomer laminated cell technology provides longer life with fewer batteries, minimal heat generation and ultra-low internal resistance.

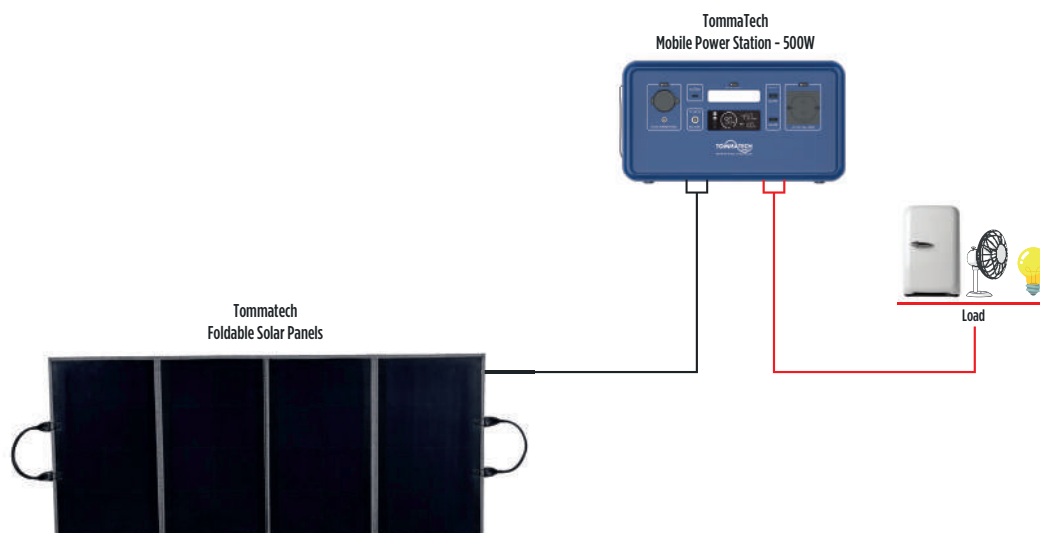
With 2000W AC input power, the power station can be fully charged in just 1 hour and 2400W maximum AC output allows you to easily charge even the most power-hungry devices. Outdoor charging is easier than ever with MPPT charging management technology, which offers charging support from 240W to 1000W with solar energy! Smart charging and sensing technologies meet the charging needs of all your equipment and save energy even during long standby periods.

TommaTech Next Generation Power Station with user-friendly smart application and interface brings maximum safety with protection mode over voltage, under voltage, over current, short circuit, over temperature and over pressure protection features.

### Product Features



### Connection Diagram



	MODEL	MGI-R-500W
GENERAL	Capacity	518Wh
	Battery chemistry	LiFePO <sub>4</sub>
	Single cell capacity	27Ah@3.2V/pcs (A500F)
	Number of cycles	Up to 80 capacity 4000+ cycles
	Indicator	APP/LED Display
	Projector	LED light
	Storage temperature	-4°F~140°F (-20°C~60°C)
	Operating temperature	-32°F~122°F (0°C~50°C)
	Material	ABS + PC
	Weight	4.6±0.5kg
	Dimensions	340*185*105mm
	Battery Management	OVP, UVP, OCP, SCP, OTP, UTP, etc.
	Solar Charging System	MPPT Charge Controller
INPUT	DC 7909	120W Max (DC / Solar 12V~24V)
	USB-C	100W Max
OUTPUT	AC	500W Max (220V~240V@50Hz)
	USB-C	100W Max
	USB-A#1	18W Max (5V~12V)
	USB-A#2	18W Max (5V~12V)
	DC 5525	120W (12V/10A)
	Vehicle Port	120W (12V/10A)





# MOBILE POWER STATION

## MGI- V-500W-PLS

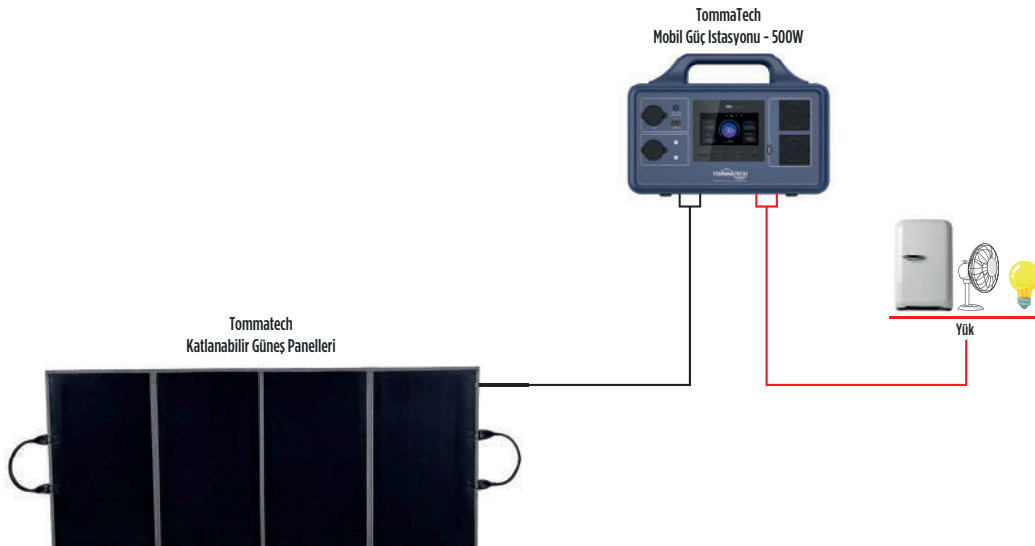


Thanks to its expandable design, the TommaTech Next Generation Power Station can be upgraded up to 6720Wh with two additional battery packs. Monomer laminated cell technology provides longer life with fewer batteries, minimal heat generation and ultra-low internal resistance. With its 2000W AC input power, the power station can be fully charged in just 1 hour and its 2400W maximum AC output allows you to easily charge even the highest power consuming devices. Outdoor charging is easier than ever with MPPT charging management technology, which offers charging support from 240W to 1000W with solar energy! Smart charging and sensing technologies meet the charging needs of all your equipment and save energy even during long standby periods. TommaTech Next Generation Power Station with user-friendly smart application and interface brings maximum safety with protection mode over voltage, under voltage, over current, short circuit, over temperature and over pressure protection features.

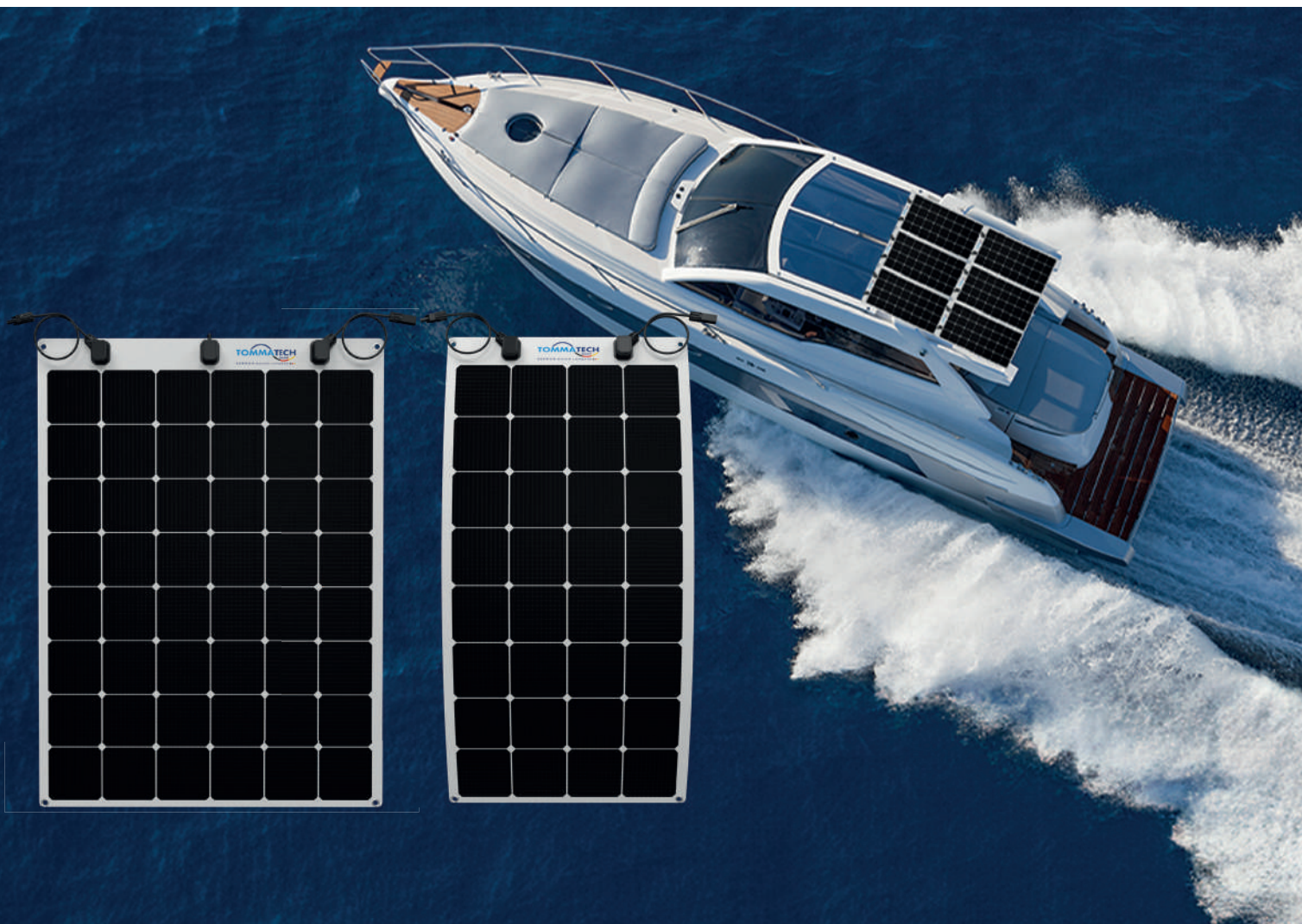
### Product Features



### Connection Diagram



GENERAL	MODEL	MGI-V-500W-PLS
	Capacity	512Wh
	Battery chemistry	LiFePO <sub>4</sub>
	Single battery capacity	40Ah@3.2V/pcs (A500F-Pro)
	Number of cycles	Up to 80 capacity 4000+ cycles
	Indicator	APP/TFT Display
	Storage temperature	-4°F~140°F (-20°C~60°C)
	Operating temperature	32°F~122°F (0°C~50°C)
	Material	ABS + PC / Metal
	Weight	7.5±0.5kg
	Dimensions	333*184*224mm
	Battery Management	OVP, UVP, OCP, SCP, OTP, UTP, etc.
	Solar Charging System	MPPT Charge Controller
INPUT	AC	500W Max
	DC 7909	/
	XT60	200W Max
	USB-C	/
OUTPUT	AC	500W Max (220V~240V@50Hz)
	USB-C	100W Max
	USB-A	18W Max (5V~12V)
	DC 5525	120W (12V / 10A)
	Vehicle Port	120W (12V / 10A)



# MOBILE POWER STATION

## MGI-V-1200W-PLS



Thanks to its expandable design, the TommaTech Next Generation Power Station can be upgraded up to 6720Wh with two additional battery packs. Monomer laminated cell technology provides longer life with fewer batteries, minimal heat generation and ultra-low internal resistance. With its 2000W AC input power, the power station can be fully charged in just 1 hour and its 2400W maximum AC output allows you to easily charge even the highest power consuming devices. Outdoor charging is easier than ever with MPPT charging management technology, which offers charging support from 240W to 1000W with solar energy! Smart charging and sensing technologies meet the charging needs of all your equipment and save energy even during long standby periods.

TommaTech Next Generation Power Station with user-friendly smart application and interface brings maximum safety with protection mode over voltage, under voltage, over current, short circuit, over temperature and over pressure protection features.

### Product Features



Smart Power Technology



Easy to Carry



Informative Display



Environmentally Friendly



Low Sound Level



Capacity Diversity



AC/DC Output



Technical Support

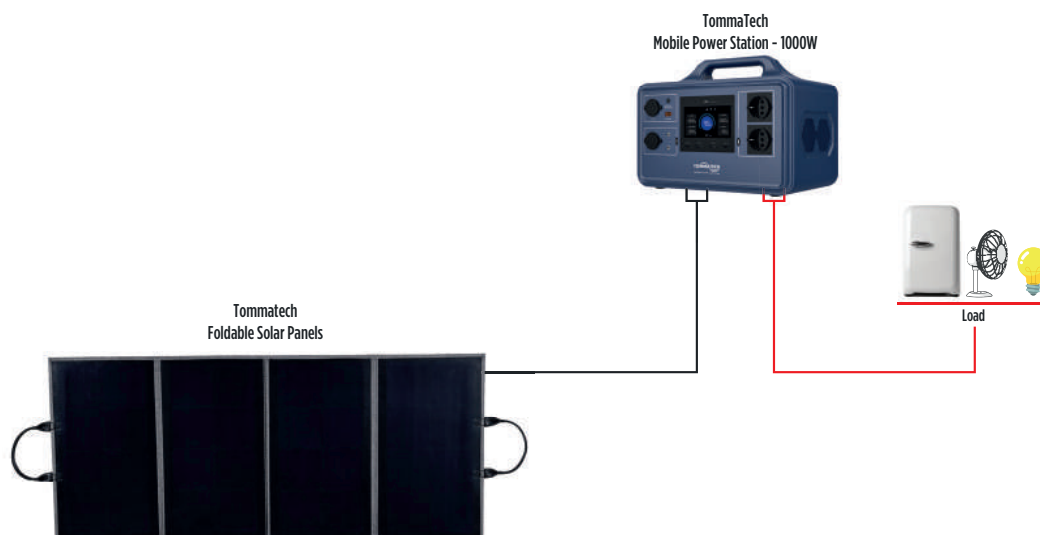


Monomer Laminated Cell Technology



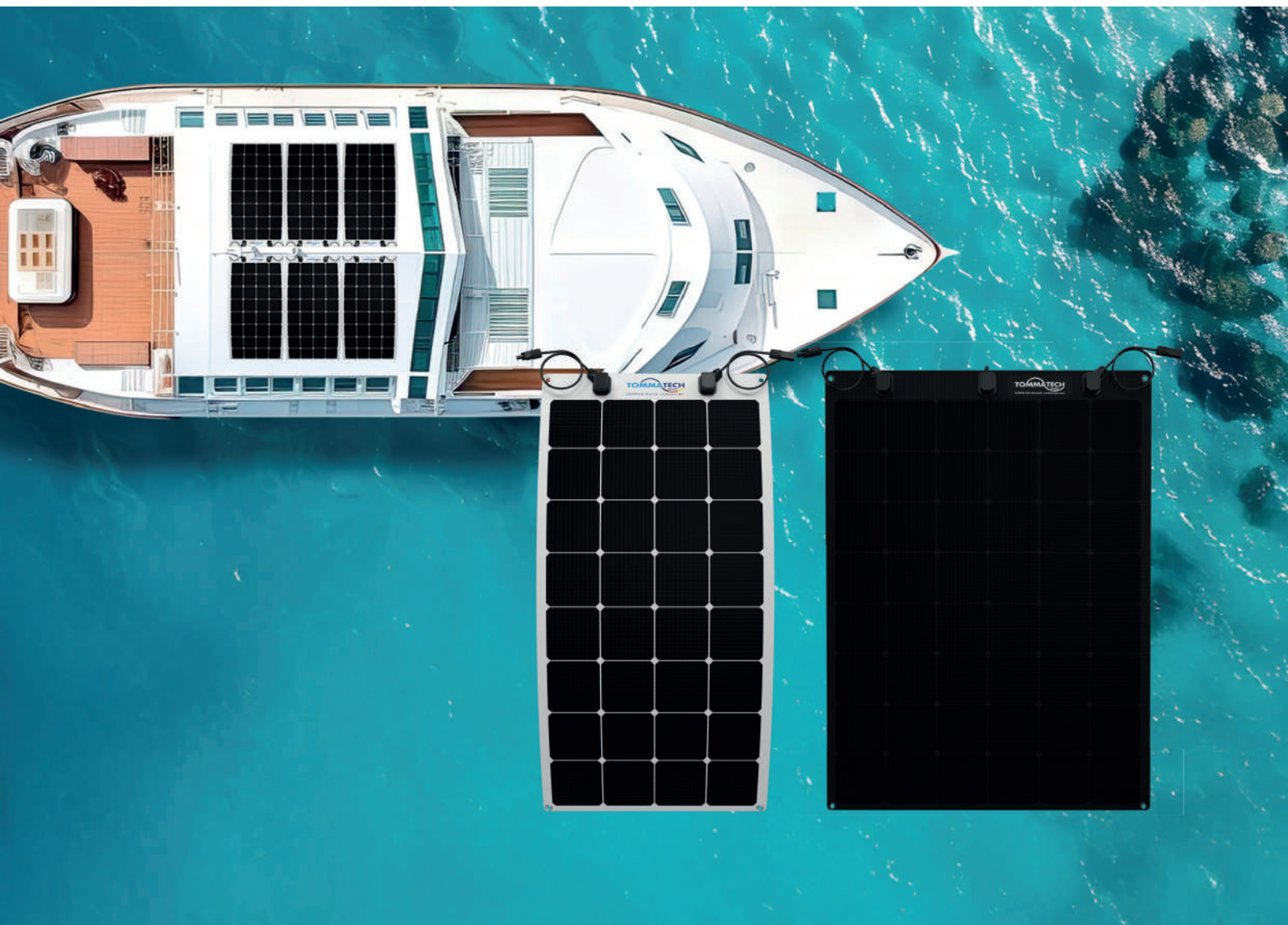
Smart Protection Feature

### Connection Diagram





GENERAL	MODEL	MGI-V-1200W-PLS
	Capacity	1030Wh
	Battery chemistry	LiFePO <sub>4</sub>
	Single battery capacity	23Ah@3.2V/adet
	Number of cycles	Up to 80 capacity 4000+ cycles
	Indicator	APP/TFT Display
	Storage temperature	-4°F~140°F (-20°C~60°C)
	Operating temperature	32°F~122°F (0°C~50°C)
	Material	ABS + PC / Metal
	Weight	12±0.5kg
	Dimensions	340*220*256mm
	Battery Management	OVP, UVP, OCP, SCP, OTP, UTP, etc.
	Solar Charging System	MPPT Charge Controller
INPUT	AC	1000W Max
	XT60	800W Max
OUTPUT	AC	1200W Max (220V~240V@50Hz)
	USB-C	100W Max
	USB-A	18W Max (5V~12V)
	DC 5525	120W (12V/10A)
	Vehicle Port	120W (12V/10A)



# MOBILE POWER STATION

## MGI-V-2400W-PLS



Thanks to its expandable design, the TommaTech Next Generation Power Station can be upgraded up to 6720Wh with two additional battery packs. Monomer laminated cell technology provides longer life with fewer batteries, minimal heat generation and ultra-low internal resistance.

With its 2000W AC input power, the power station can be fully charged in just 1 hour and its 2400W maximum AC output allows you to easily charge even the highest power consuming devices. With MPPT charging management technology, which offers charging support from 240W to 1000W with solar energy, outdoor charging is more convenient than ever.

easy! Smart charging and sensing technologies meet the charging needs of all your equipment and save energy even during long standby periods.

TommaTech Next Generation Power Station with user-friendly smart application and interface brings maximum safety with protection mode over voltage, low voltage, over current, short circuit, over temperature and over pressure protection features.

### Product Features



**Smart Power Technology**



**Easy to Carry**



**Informative Display**



**Environmentally Friendly**



**Low Sound Level**



**Capacity Diversity**



**AC/DC Output**



**Technical Support**

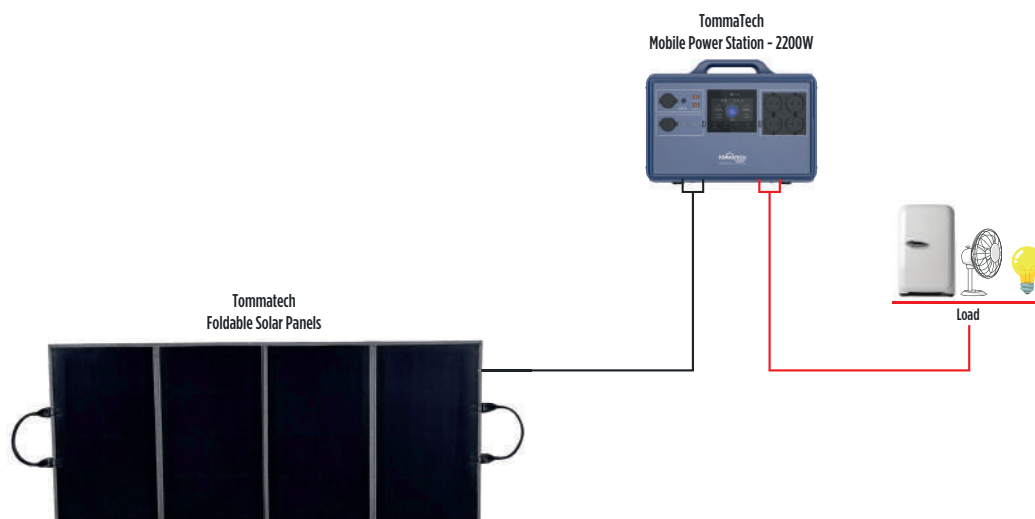


**Monomer Laminated Cell Technology**



**Smart Protection Feature**

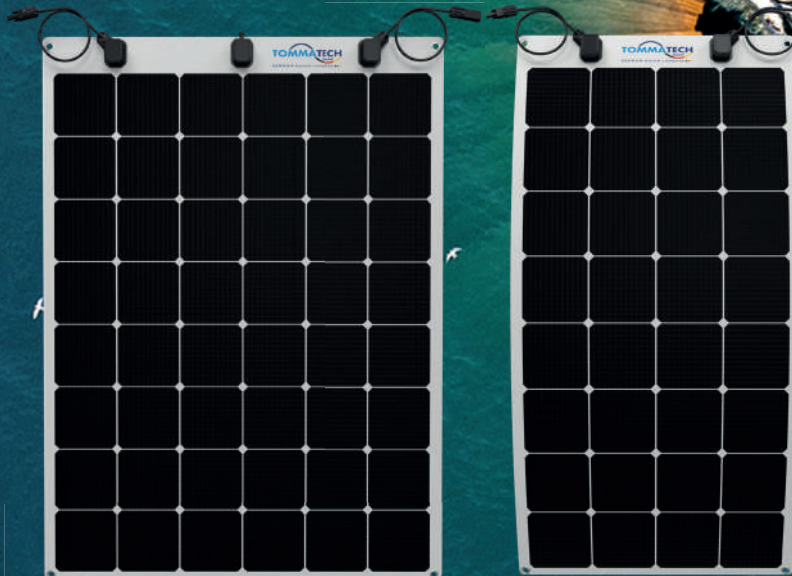
### Connection Diagram





GENERAL	MODEL	MGI-V-2400W-PLS
	Capacity	2240Wh
	Battery chemistry	LiFePO <sub>4</sub>
	Single battery capacity	50Ah@3.2V/piece
	Number of cycles	Up to 80 capacity 4000+ cycles
	Indicator	APP/TFT Display
	Storage temperature	-4°F~140°F (-20°C~60°C)
	Operating temperature	32°F~122°F (0°C~50°C)
	Material	ABS + PC / Metal
	Weight	12±0.5kg
	Dimensions	340*220*256mm
	Battery management system	OVP, UVP, OCP, SCP, OTP, UTP, etc.
	Solar Charging System	MPPT Charge Controller
INPUT	AC	1000W Max
	XT60	800W Max
OUTPUT	AC	1200W Max (220V~240V@50Hz)
	USB-C	100W Max
	USB-A	18W Max (5V~12V)
	DC 5525	120W (12V/10A)
	Vehicle Port	120W (12V/10A)

**Limetless Energy**  
*with the power of the Sun*





# LITHIUM BATTERY

BTR-P-12,8V 102 AH- BTR-P-12,8V 204 AH- 25,6V 102 AH- 25,6V 204 AH



Tommatech new generation low voltage lithium batteries offer unique solutions for energy storage. Tommatech lithium batteries with high energy density, superior quality and performance as well as long life up to 8000 cycles stand out with their functional and environmentally friendly structure. Tommatech lithium batteries are uniquely designed on the heat resistant and high performance lifepo4 battery architecture. At the same time, lithium batteries equipped with temperature sensors are presented to users with a durable metal case. BMS (Battery Management System) with balancing feature is used in tommatech lithium batteries designed with the concept of safety and quality. Al-Cu alloy conductive busbars are preferred and allow parallel connection without loss of performance.

## Product Features



**Superior  
Performance**



**BMS**



**Long  
Life**



**Metal  
Case**



**Heat  
Resistance**



**IP20  
Protection**



**IP65  
Protection**



**Increaseable  
Capacity**

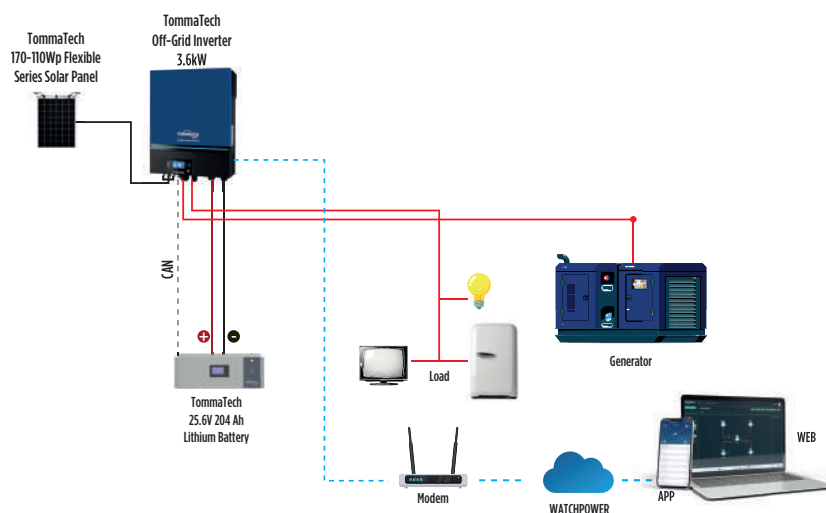


**Communication**



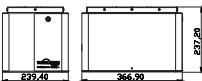
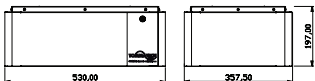
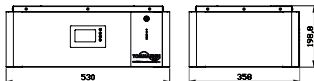
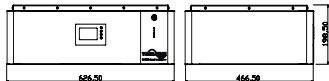
**Sustainable  
Energy**

## Connection Diagram



VOLTAGE - CAPACITY	BTR-P-12.8V-102Ah	BTR-P-12.8V-204Ah	BTR-P-25.6V-102Ah	BTR-P-25.6V-204Ah
Nominal Voltage [V]	12.8	12.8	25.6	25.6
Nominal Capacity [Ah]	102	204	102	204
Nominal Energy [Wh]	1305.6 <sup>1</sup>	2611.2 <sup>1</sup>	2611.2 <sup>1</sup>	5222.4 <sup>1</sup>
Recommended Charging Current [A]	50 <sup>2,3</sup>	80 <sup>2,3</sup>	50 <sup>2,3</sup>	100 <sup>2,3</sup>
Maximum Charge Current [A]	75 <sup>2,3</sup>	100 <sup>2,3</sup>	75 <sup>2,3</sup>	150 <sup>2,3</sup>
Recommended Charging Voltage [V]	14.2	14.2	28.4	28.4
Maximum Charge Voltage [V]	14.6	14.6	29.2	29.2
Recommended Discharge Current [A]	50 <sup>2,3</sup>	80 <sup>2,3</sup>	50 <sup>2,3</sup>	100 <sup>2,3</sup>
Maximum Discharge Current [A]	75 <sup>2,3</sup>	100 <sup>2,3</sup>	75 <sup>2,3</sup>	150 <sup>2,3</sup>
Discharge Cut-off Voltage [V]	11.1±0.2	11.1±0.2	22.4±0.2	22.4±0.2
BATTERY / CELL				
Number of Cycles	8000 <sup>2,3,4,5,6</sup>			
Mass Energy Density [Wh / Kg]	165			
Volumetric Energy Density [Wh / L]	350			
Internal Resistance [mΩ]	0.27-0.40 <sup>7</sup>			
STANDARD				
Over Charge Protection	Yes			
Over Discharge Protection	Yes			
Over Current Protection	Yes			
Short Circuit Protection	Yes			
Over Temperature Protection	Yes			
Temperature Sensor	Yes			
Adjustable Charge / Discharge Current	Yes			
Battery chemistry	LFP Prismatic			
Safety	IEC 61960 / 62133-2 / RoHS			
OPERATING CONDITIONS				
Charging Temperature [°C]	0 ~ +60			
Discharge Temperature [°C]	-20 ~ +60			
Storage temperature [°C]	0 ~ +35			
Humidity (Non-condensing)	Max %85			
Protection Class	IP20-IP65			
Planned Product Life [Year]	>15			
Warranty Period [Year]	5			
OTHERS				
Dimensions (WxDxH) [mm]	239.4x366.9x237.2	530x357.5x197	530x358x198.8	466.5x626.5x198.5
Weight (Kg)	16.50±0.2	27.75±0.2	27.75±0.2	47.70±0.2
Battery Connection	IP67 Protected Positive (+) and Negative (-) Connector Header			
Serial Connection	No			
Parallel Connection	Yes (Maximum 16 Pcs)			
Communication	Not Available		CAN / RS485 / Bluetooth	
Display	Not Available		LCD	
External Cabinet	Metal Case			

## FİZİKSEL ÖZELLİKLER

BTR-P-12.8V-102Ah	BTR-P-12.8V-204Ah	BTR-P-25.6V-102Ah	BTR-P-25.6V-204Ah
			

Unit:mm

<sup>1</sup>) Kullanılabilir Enerji (Usable Energy)

<sup>2</sup>) 0.5C

<sup>3</sup>) 25°C ± 2°

<sup>4</sup>) 50% SOC (State Of Charge)

<sup>5</sup>) 75% D.O.D (Depth Of Discharge)

<sup>6</sup>) 80% EOL (End Of Life)

<sup>7</sup>) 17% ± 3% SOC (State Of Charge)

\*Tomma Tech GmbH reserves the right to change product specifications without prior notice.

\*\*For modular lithium battery, the bottom base accessory is available separately upon request.













**PORTAL**

*experience the*  
**COMFORT OF THE FUTURE**



## "One Brand, One Application"

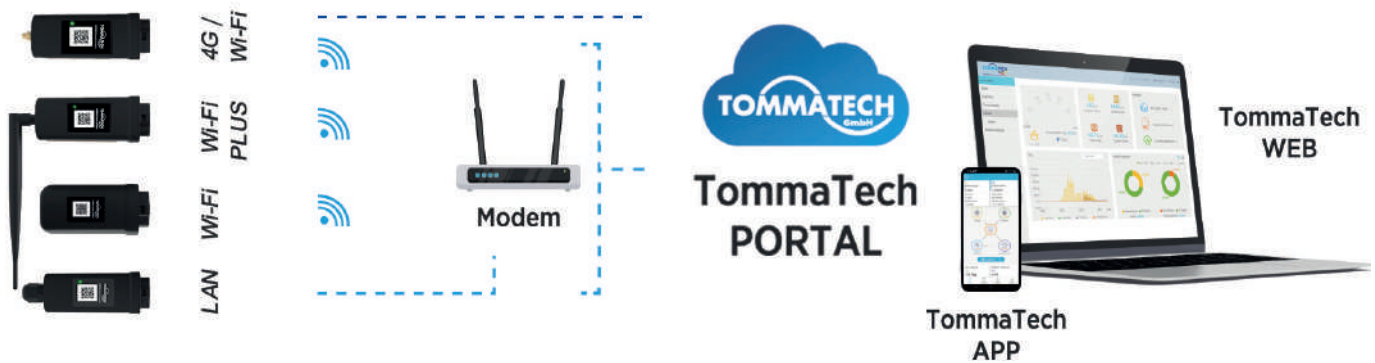
### Easy Use

With TommaTech Portal, you can easily provide remote monitoring and control of all your devices through a single application. You can make many setting changes and remote monitoring from the voltage and current values you receive from the panels to the occupancy rate of your high voltage battery, from the instantaneous power requirement of your home to the instantaneous consumption of the EV Charger, from the operating mode selection of the hybrid inverter to the water temperature change via the heat pump.

### Easy Access

Thanks to various remote monitoring accessories, it offers the option of remote monitoring either wired or wirelessly depending on the installation location.

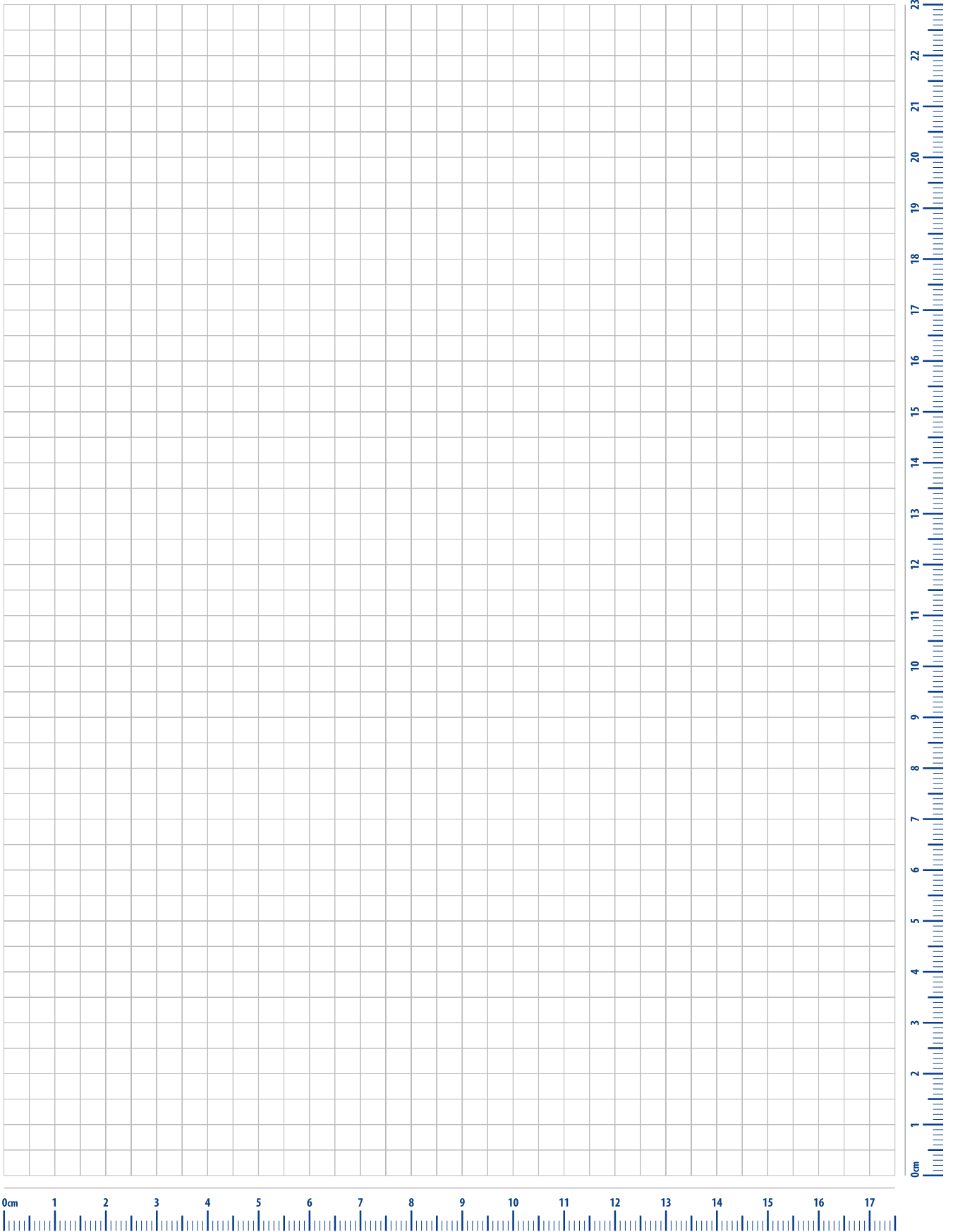
You can easily log in from anywhere at any time via WEB or APP. By logging in via WEB, you can access the detailed data of your system and create reports on a daily, monthly or annual scale.





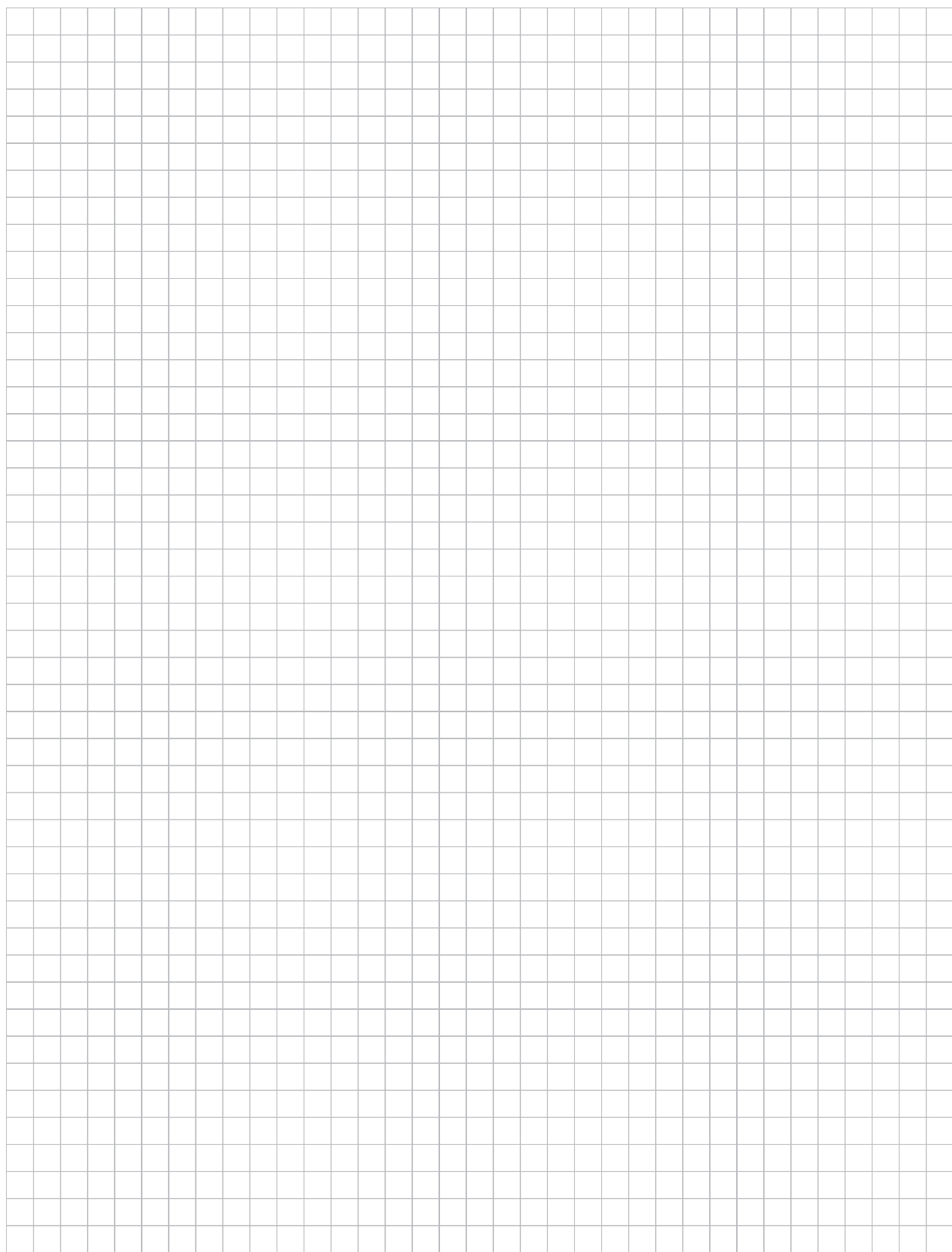


**Unlimited Energy**  
at the sea



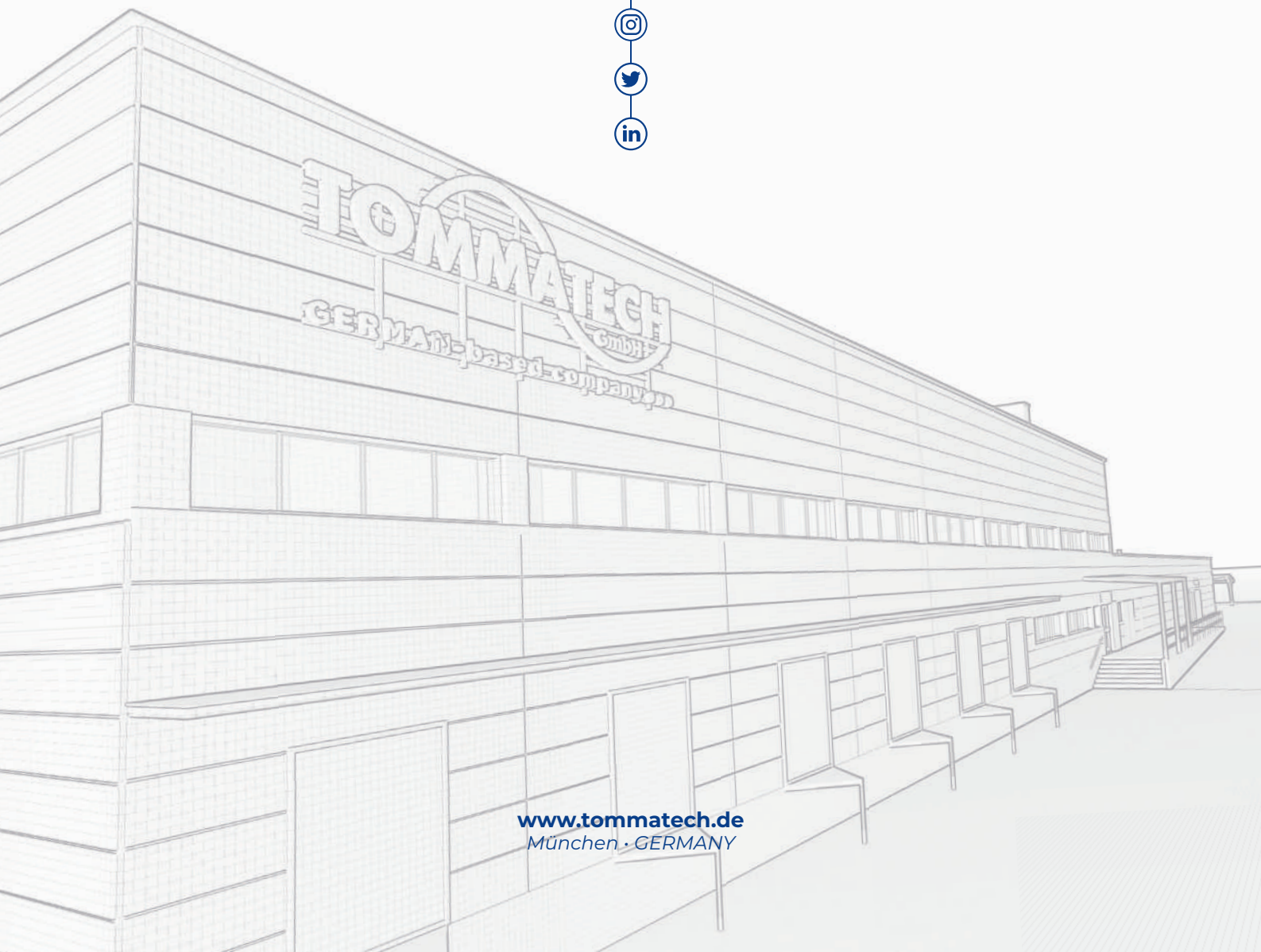








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