

**Uno Micro AIO Hybrid Inverter
& TOPCon Flexible Balcony
Solar Panel**

2,5 kW – 2,56 kWh / 200 Wp



Generate, Store, Use Efficiently.



High Efficiency



Plug and Play



Smart Management



All-In-One



Lightweight & Flexible Design



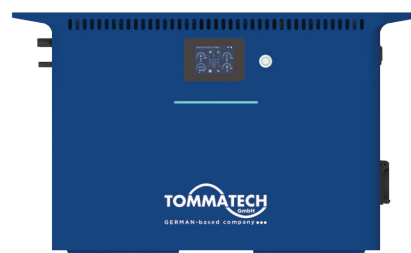
IP65 Protection

200Wp

2.5kW

TT200-FLEX-BLN-48TN10 200Wp / Uno Micro 2.5KW-2.56KWH AIO

TommaTech Balcony Set, combines flexible TOPCon solar panel technology with a compact hybrid all-in-one microinverter to enable efficient energy generation from balconies. Thanks to its lightweight and easy-to-install design, it offers a sustainable energy solution for apartment units, terraces, and small living spaces. With its high-efficiency TOPCon cell technology and smart energy management features, it helps maximize the benefits of solar energy.





TT200-FLEX-BLN-48TN10 200Wp

ELECTRICAL FORCES

Model Type	TT200-FLEX-48TN10
Maximum Power (Pmax)	200
Power Rating (Wp)	0~+5
Module Efficiency (%)	21.6
Maximum Power Voltage (Vmp)	30.67
Maximum Power Current (Imp)	6.62
Open-Circuit Voltage (Voc)	34.8
Short-Circuit Current (Isc)	6.96
Maximum System Voltage (VDC)	1000
Maximum Series Insurance Current (A)	15

SOLAR CELL

Cell Type	TOPCon N-Type
Number of Cell Busbars (Units)	16
Cell Efficiency (%)	25.4
Cell Size (mm)	182.2 x 91.8 (M10R)
Cell Count (Number)	48

TEMPERATURE COEFFICIENT

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

MECHANICAL PROPERTIES

Product Dimensions [WidthxLengthxThickness](mm)	1194 x 854 x 26
Packaged Product Dimensions [WidthxLengthxThickness](mm)	1218 x 855 x 70
Product Weight (kg)	3
Packaged Product Weight (kg)	4
Panel Protection Class	IP65

JUNCTION BOX FEATURES

Connector	MC4
Junction Box Cable Gauge	12AWG
Junction Box Cable Length (mm)	300

*The data above was obtained under standard test conditions (STC): 1000 W/m² solar irradiance, air mass 1.5 (AM), and a cell temperature of 25°C. The measurement uncertainty for all panels is 6%. Actual data will be subject to the terms of the contracts entered into. The technical values provided in this document are for informational purposes only and do not constitute part of any contract. The technical specifications in this document are subject to change. For detailed information, please refer to the "Installation and Assembly Guide."



Uno Micro 0.8KW AIO

Uno Micro 1.6KW AIO

Uno Micro 2.0KW AIO

Uno Micro 2.5KW AIO

PV STRING INPUT DATA

Max. PV access power (W)	5760W			
Max. Operating PV Input Current (A)	32+32+32+32A			
Max. Input Short-Circuit Current (A)	48+48+48+48A			
Rated PV Input voltage (V)	42.5V			
Start-up Voltage (V)	25Vdc			
MPPT voltage range (V)	20 ~ 55V			
No. of MPP Trackers/No. of Strings MPP Tracker	4/1+1+1+1			

AC INPUT/OUTPUT DATA

Rated AC Input/Output Active Power (W)	800W	1600W	2000W	2500W
Max. AC Input/Output Active Power (W)	880W	1760W	2200W	2750W
Max. off grid power (W)	2500W			
Rated AC Input/Output Current (A)	3.7A / 3.5A800W	7.3A / 7.0A	9.1A / 8.7A2200W	11.4A / 10.9A
Max. AC Input/Output Current (A)	4A / 3.9A	8A / 7.7A	10A / 9.6A	12.5A / 12A
Peak Power (off-grid) (W)	2 times of rated power,10s			
AC Input/Output Frequency and Voltage	50Hz (45Hz ~ 55Hz) , 60Hz (55Hz ~ 65Hz) , L + N + PE , 220 / 230 Vac			
Power Factor Adjustment Range	0.8 leading-0.8lagging			
Max. Continuous AC Passthrough (grid to load)(A)	30A			
DC Injection Current	<0.5%In			

BATTERY INPUT DATA

Battery Type	Lithium Battery			
Battery Voltage Range(V)	44.8-57.6 V			
Battery Nominal Energy (Wh)	2560Wh			
Max.Charging/Discharging Current(A)	50A			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			

EFFICIENCY

Max. Efficiency	96.5%			
Euro Efficiency	96.0%			
MPPT Efficiency	>99%			

EQUIPMENT PROTECTION

Integrated	DC reverse polarity protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, Insulation Impedance detection, Anti-islanding protection			
Surge Protection Level	TYPE III(DC),TYPE III(AC)			

GENERAL DATA

Max. Inverter Parallel NO	3 pcs (up to 7.5 kW rated output)			
Communication Interface.	Wi-Fi, Bluetooth, LoRa			
Operating Temperature Range (°C)	-10°C ~ 55°C , >45°C Derating, (-20°C~55°C with heating, optional)			
Permissible Altitude (m)	2000m			
Ingress Protection(IP) Rating	IP 65			
Cabinet Size (W X H X D)	560 x 330 x 210mm			
Weight (kg)	30kg			
Permissible Ambient Humidity	0% ~ 95% (No Condensing)			
Warranty	10 years			
Grid Regulation	VDE 4105, IEC 61727/62116, EN 50549-1,			
Safety EMC/Standard	IEC 62619, UN38.3, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1/2/3/4			

Micro 2.56KWH AIO

BATTERY TECHNICAL SPECIFICATION

Battery Chemistry	Lithium Battery			
Battery Nominal Voltage	51.2V			
Battery Nominal Energy	2560Wh			
Max. Charging / Discharging Current	50A			
Battery Operating Voltage	44.8V ~ 57.6V			
Battery Cycle Life	> 6,000 (@25°C±2°C, 70%EOL)			
Max. Stack NO.	5 pcs (up to 12.8kWh)			
Parallel Capability	40 pcs*			

OTHER TECHNICAL SPECIFICATIONS

Display	LED (SOC, Alarm)			
Communication Interfaces	LoRa			
Dimension (W x D x H) (mm)	450 x 210 x 244 (without terminal)			
Ingress Protection(IP) Rating	IP 65			
Weight Approximate	22±3 kg			
Operating Temperature Range	-10°C~55°C (-20°C~55°C with heating, optional)			
Max. Operating Altitude	2,000m			
Relative Humidity	0% ~ 95% (No Condensing)			
Certification	UN38.3, IEC 62619, CE			
Installation Style	Floor-Mounted,Stacked-Mounted			
Warranty	10 years			

*Maximum 40 Pieces Micro 2.56KWH AIO Packs in Parallel, Up to 102.4kWh.

* TommaTech GmbH reserves the right to change the specifications of the products without prior notice.

Ver.1606.26