TOMMATECH ZERO UPS SERIES SINGLE-PHASE INVERTER
6.2kW

TOMMATECH GmbH
GERMAN-based company



Single-Phase Off-Grid Inverter

Zero UPS Series

6.2 kW

Smart Power Source

- 0 ms Transfer Time to Backup Power Source
- Wide Battery Voltage Range 40–66 V
- Generator Support
- Single-Phase AC Output
- High-Efficiency MPPT
- Pure Sine Wave Output
- BMS Communication
- Remote Monitoring
- Parallel Operation of Up to 9 Units with External Board (55.8 kW)
- 120 A Charging Current
- ECO Mode 98% Efficiency
- Dual Load Output
- 2 Year Warranty



6.2 kW

TommaTech Zero UPS 6.2K 48V MPPT

TommaTech Zero UPS 6.2K is a highly efficient power source that provides an uninterrupted power supply with a 0 ms transfer time to backup power in the event of a grid outage. This feature ensures the safe operation of critical equipment such as servers, ATMs, and security systems. It offers 120 A solar and 120 A AC charging current and operates with a wide 40–66 V battery voltage range, while offering 98% efficiency in ECO mode. With its dual load output, it can prioritize essential loads during power outages. It supports generator operation and is compatible with different power sources and batteries. Remote monitoring and management are available via the TT Cloud web platform and mobile application. With an external parallel communication board, up to 9 units can be connected in parallel, providing a total power capacity of up to 55.8 kW.

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CE

TommaTech Zero UPS 6.2K 48V MPPT

MODEL	
Nominal Power [VA/W]	6200VA/6200W
Parallel Operation	Up to 9 Units
AC INPUT	
Voltage	230 VAC
Selectable Voltage Range	110-280 VAC
Nominal Frequency	50 Hz / 60 Hz (Auto Detection) ± 4 Hz
Power Factor	≥ 0,98 @ Nominal Voltage (100% Load)
THDi	≤ 10%
OUTPUT	
AC Voltage Regulation (Battery Mode)	230 VAC ± 5%
Frequency Range (Synchronized Range)	46–54 Hz or 56–64 Hz
Frequency Range (Battery Mode)	50 Hz ± 0,1 Hz or 60 Hz ± 0.1 Hz
Harmonic Distortion	≤ 3% THD (Linear Load); ≤ 5% THD (Non-Linear Load)
Surge Power [VA]	2 × Rated Power (5 seconds)
Overload Protection	5 s @ ≥ 150% Load; 10 s @ 110–150% Load; 100 ms @ ≥ 200% Load
No-Load Power Consumption	≤ 75 W
Transfer Time – AC Mode to Battery Mode	0 ms
Transfer Time – Inverter to Bypass	4 ms (Typical)
Waveform	Pure Sine Wave
EFFICIENCY	
Line Mode	94%
ECO Mode	98%
Battery Mode	92%
BATTERY	
Battery Voltage	40~66 VDC
Float Charging Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Max. PV Array Power [W]	6000 W
MPPT Operating Voltage Range [V]	120 ~ 430 VDC
Max. PV Array Open Circuit Voltage [V]	500 VDC
Max. Solar Charging Current [A]	120 A
Max. AC Charging Current [A]	120 A
Max. PV Input Current [A]	27 A
PHYSICAL SPECIFICATIONS	
Dimensions (D × W × H)	140 x 295 x 468 mm
Net Weight	12 Kg
Communication Interface	RS232, USB, Dry Contact, Wi-Fi, RS485
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-Condensing)
Operating Temperature	-10°C ~ +50°C
Storage Temperature	-15°C ~ +60°C
STANDARDS	
Compliance	EN 62109-1/2 EN IEC 61000-3-11/12 EN IEC 61000-6-2/4 Low Voltage Directive 2014/35/EU
WARRANTY	
Product Warranty	2 Years

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

Ver.2609.03

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