SOLAR TRAILER

TOMMATECH GmbH

GERMAN-based company



SYSTEM CONFIGURATION

Solar Panel	4 x 450Wp High Efficiency Half-Cut 16BB
Inverter	5000W Pure Sine Wave MPPT
Battery	2 x 51.2V-102Ah $LiFePO_4$
Total Battery Energy	10.44 kWh
Lighting	4 × 200 W LED Modules
Charging Type	Solar Panel + AC Charging
Pole Height	7.5 m
Pole Type	Hydraulics
Communication	CAN / RS485 / Bluetooth
System Usage	Off-Grid Mobile Energy Solution
Lighting Group Training	Electric 70°
Trailer Type	Single-axle
Tire and Wheel Size	185/70 R14
Leveling Feet	4 pieces, Manual
Mudguard / Wheel Chock	Included
Wind Resistance	100 km/sa
Panel Tilt Angle	30–45°

KEY FEATURES

- Portable Mobile Power Solution
- Pure Sine Wave 230V AC Output
- 1.800 Wp Panel MPPT-Enabled Inverter
- 10.44 kWh $LiFePO_4$ Battery, 8000 Cycles
- Solar Panel and AC Charging Support
- CAN / RS485 Bluetooth Communication
- 4 × 200 W LED Lighting Electric 70° Tilt
- 7.5-Meter Pole Hydraulic / Rope-Driven Lifting

PANEL TECHNICAL SPECIFICATIONS

Maximum Power (Pmax)	450 Wp
Cell Technology	High Efficiency
Cell Efficiency	%25.5
Module Efficiency	%23.04
Panel Size	1722 × 1134 × 30 mm
Weight	21.45 kg
Connection Box	IP68

INVERTER TECHNICAL SPECIFICATIONS

Maximum Power	5000 VA / 5000 W
AC Input Voltage	230 V AC
Nominal Frequency	50 / 60 Hz (automatic detection)
AC Output Regulation	230 V ±%5
Instant Power	10000 VA
Efficiency	%90–93
Automatic Transition Time	10 ms
Wave Type	Full Sine Wave

BATTERY TECHNICAL SPECIFICATIONS

Battery Chemistry	LFP Prismatic
Nominal Voltage	51.2 V
Nominal Capacity	204 Ah (2×102 Ah)
Total Nominal Energy	10.444,8 Wh
Lifecycle	8000 Spins
Charging Temperature	0 – +60°C
Discharge Temperature	−20 – +60°C
Communication	CAN / RS485 / Bluetooth