Qoltec Monolith 3-in-1 solar inverter with AC 40A charging function | MPPT 40A | UPS | ATS | 3000W | 6000W | 12V to 230V | Pure Sine Wave

Product code: 51915

Solar 3000W Pure sine wave inverter with AC charging and solar MPPT and ATS charging function. It has two UPS modes and an energy saving mode (ECO). The UPS function allows automatic switching of the power source in case of a power outage - the inverter continuously supplies power to the consumers and charges the battery from the 230V mains. The device offers the possibility to connect solar panels, supported by MPPT solar charger.

INVERTER WITH AC CHARGING FUNCTION AND MPPT.

3in1 - UPS function, ATS and Dual charging mode: AC and solar charging with MPPT controller

Inverter **with AC charging and MPPT solar charging function**, provides optimum performance in combination with both grid and solar panels.

- **UPS function –** In the event of a power outage from the grid, the device automatically switches to battery power, ensuring continuous operation of connected devices.
- **ATS function –** automatically selects between grid power and solar panel power, depending on availability.
- **Dual charging mode –** device **can charge the battery both from a 230V (AC) outlet with up to 40A current and from solar panels using the built-in MPPT controller with a maximum current of 40A**, Which optimizes the use of solar energy.

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GET THE MOST OUT OF MPPT TECHNOLOGY

MPPT or maximum power generation from solar panels

MPPT technology **guarantees high efficiency of 97%** , Maximizing energy production from solar panels, using the **Advanced maximum power point tracking technology** . Having this feature significantly affects the efficiency of a photovoltaic installation **– can maintain high power output even in low sunlight conditions.** In addition, the regulator controls battery operation and the charging process and protects the battery from damage.

STABLE POWER AND FAST CHARGING FROM SOLAR ENERGY

Stable Pure Sinusoidal Power Supply, Fast 40A Charging and Simple Integration with Solar Systems

The inverter generates a pure sine wave, which **guarantees stable and safe power supply for sensitive electronic devices** . Maximum charging current of 40A from solar panels, provides fast and efficient charging of batteries. The device is **Equipped with MC4 connectors for simple and secure integration with solar panels** , and **USB ports (5V/2.1A)**, For charging mobile devices. With advanced features and reliable performance, the Monolith 3000W charger is an ideal choice for off-grid systems, emergency power and solar energy optimization.

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YOUR RELIABLE SOURCE OF ENERGY

Key Features of Monolith Inverter - Safety and Performance

- 3000W Inverter generating pure sine wave,
- **Dual charging modes**: AC and solar MPPT charging,
- **Built-in ATS system** for automatic switching of power sources,
- 97% efficiency of MPPT solar charger,
- UPS mode for uninterrupted power supply,
- ECO mode to save energy,
- Maximum charging current from PV panels: 40A,
- **USB ports**: 5V/2.1A charge for mobile devices,
- **MC4 connectors for connecting solar panels**,
- **Built-in grounding** For added security.

ADVANCED 3-STAGE CHARGING SYSTEM

Optimal performance with intelligent 3-step charging process!

The device is equipped with an advanced 3-stage charging system that ensures optimal performance and longer battery life. The three phases of charging include:

- **Bulk phase - fast charging**, During which the battery is charged with the maximum current.
- **Absorption phase - voltage stabilization**, to ensure full charge without overcharging.
- **Float phase - keeping the battery charged at minimum current**, To prevent its discharge.

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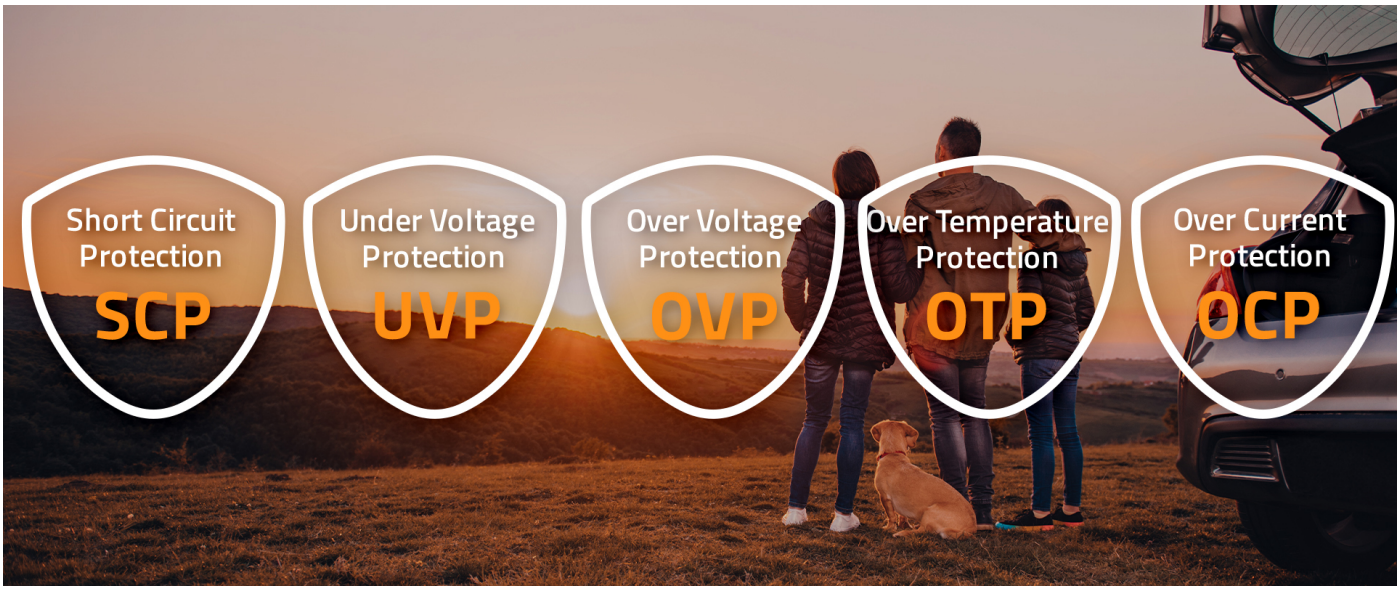
SAFETY IS OUR PRIORITY



Use of advanced security features

In designing the chargers, we focused primarily on **safety and reliability.** You can safely and quickly recharge your battery right now. The product has advanced protection features including protection **against reverse polarity, overvoltage or overheating** While meeting international safety standards. For complete protection, the charger's inputs and outputs have been completely isolated. **Advanced security features: Security UVP –** Protection against under-voltage, **Security SCP –** is a short circuit protection, **Security OVP –** is the protection against too high output voltage, **Security OCP –** is the protection against too high current on the line, **Security OTP –** is protection against overheating.

CONFIDENCE CONFIRMED BY A GUARANTEE

Product comes with a 24-month warranty

Do you care about the high quality of the product you buy? Our solutions will meet your expectations. The chargers we offer are covered by **24 month warranty** effective from the date of purchase.

TECHNICAL DATA

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Producer	Qoltec
Rated Power	3000W
Peak power	6000W (5 second)
AC Input	230V
DC Input	12V
Input Voltage Range (PV)	25 - 75 V
Output voltage	230V
Waveform	Pure sine wave
Wave From Distortion	<4%
Idle current	1.1A
Output frequency	50/60 Hz
Transfer time	<16ms
Efficiency	87%
AC Charger	Yes
Battery charging current	40A
Solar charger	Yes
Maximum solar charge current	40A
MPPT efficiency	97%
Constant voltage charging	14.4VDC
Float charge	13.8VDC
Cooling system	1 x Fan
USB	5V/2.1A
Connector	Złącza MC4
Protection	Input : Battery under-voltage protection Battery over-voltage protection Output : Short-circuit protection Over-voltage protection Over-heat protection Low battery voltage protection
Protection against inverse polarity	Yes
Notices	Cables should be as short as possible, we recommend that they be shorter than 1.5 meters. Too small a cross section will result in lower output mac. The wires may overheat and cause danger.
OTHER PARAMETERS	
Colour	Black, green
Material	Aluminium
Dimensions (D/L x W x H)	225 x 470 x 150 mm
Package contents	1 x Pure sine wave inverter 1 x Wires 1 x User manual
Package depth / length [mm]	310
Package width [mm]	550
Package height [mm]	250
Net weight [kg]	9.100
Gross weight [kg]	11.200
Certificate	CE
Warranty	24 month
EAN code	5901878519159

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