

allinone 18|12K Hybrid Solar

Inverter

Charger





hybrid series

High Performance Inverter

The New Hybrid Series High Performance Inverter delivers exceptional performance and unsurpassed quality in an All-In-One Solution for all your Energy needs.

Volts Energies has gone ABOVE and BEYOND to bring you the best technologies available meeting the ever changing demands of the renewable energy market.













Applications

Solar Energy | Back-Up Energy Systems | Home, Office and Trailer Multiple Protection Management System | Electric applications with high energy requirements

Smart LCD Touchscreen Display Multiple Operation Modes

Parallel Integration Capability AC Coupling Capabilities

Fully Programmable Settings

Model

18/12K-200-120/240-UL

Key Features

- 120V/240V Split phase Pure Sine Wave
- Self-consumption and feed-in to the grid.
- Auto restart while AC is recovering.
- Multiple Programming Possibilities
- Operation modes: On grid, off grid and UPS. Configurable battery
- Generator Charger Settings
- WIFI Cloud Monitoring
- Multiple Stages Protection
- Smart Battery Charging
- Smart MPPT Charging System
- Time of use function.

- Smart Load Function.
- 12kW EPS Output
- 10 Units Paralleling
- AC Coupling Function
- 4 MPPT Input for max Input 18kW
- Separated Generator Input
- 200A AC Passthrough Current
- Peak Shaving Function
- 5in Color LCD, Touch Screen
- 10 Years limited Warranty



UNPARALLEL SAFETY

ELIOS INVERSA Hybrid Series Inverter includes a complete Intelligent Energy Management System. In addition to be Multiconnection ready, this system also comes with safety features such as PV Arc Fault Detection, PV Input Lightning Protection, Output Over Current Protection and many other protection protocols.



UNSURPASSED PERFORMANCE

Our ELIOS INVERSA Inverter is designed to excel in every application. With up to 250A continuous discharge current, rest assured the Volts Energies Hybrid Inverter will deliver the energy you need when you need every time.



EASY INSTALLATION

The ELIOS INVERSA Hybrid Series Inverter can work as a stand-alone unit or can be mounted as a wall accessory. That sleek compact design not only saves you space, but will definitely improve the look of your renewable energy system.



LONG LIFE DESIGN

With an IP65 protection rating, ELIOS INVERSA Series has been developed to withstand harsh weather and temperatures, making it the best of its kind.

All our products are born from meticulous research and development and from rigorous testing. The Hybrid 18/12K-200-120/240-UL Series is no exception, offering you total versatility without sacrificing performance and reliability.

Our quality assurance is backed up by a 10 year limited warranty.



SPECIFICATIONS



allin one

18|12K Hybrid Solar Inverter Charger

POWER Inverters 18/12K-200-120/240-UL

Battery Parameters

Compatible Battery Type
Nominal Battery Voltage
Battery Voltage Range
Maximun Charging/Discharging Current
Maximun Charging/Discharging Power

Input DC (PV Side)

Max. DC Input Power for Single MPPT

Max. PV Input Power

DC Input Voltage Range

Nominal DC Input Voltage

Full Power MPPT Voltage Range

Max. DC Input Current

MPPT Number/(Strings per MPPT)

12000W / 7000W / 7000W

18000W

100V~600V

360V

230~500V

25A/15A/15A

3(2/1/1)

Output/Input AC (Grid)

Nominal Power 12000W
Nominal AC Voltage 120 / 240V Split Phase
Operating Voltage Range 180V~270V
Max. Continuous AC Current 50A @ 240V
Nominal AC Frequency 50Hz / 60Hz
Pass Through Relay 200A

UPS Output-with Battery

UPS Max. Output Power 12000W
UPS Nominal Output Voltage 120 / 240V Split Phase
UPS Nominal Output Frequency 50Hz / 60Hz
UPS Nominal Output Current 50A @ 240V
Peak Power 14kW 10minutes / 16kW

Peak Power 14kW 10minutes / 16kW 5minutes / 20kW 500ms Switching Time <20ms

18/12K-200-120/240-UL

Lead-acid / Lithium

48V

40V~60V

12000W

250A/250A

Efficiency

MPPT Efficiency 99.9%
Max. Efficiency 97.5%
EU Efficiency 96.5%
Battery Charging Efficiency 95.0%
Battery Discharging Efficiency 94.5%

Protection

Anti-islanding Protection YES
DC Switch YES
Ingress Protect Degree IP65
SPD Protection YES
AFCI YES
RSD YES

General Data

Dimension 31.1 in x 20.5 in x 11.2 in Weight 42kg
Display Color LCD
Topology Transformer-less
Ambient Temperature Range -25°C~60°C
Cooling FAN
Communication RS485/Wi-Fi/CAN

Standard & Certification

EMC IEEE1547, FCC, SDOC
Safety Standard UL 1741
Grid Standards IEEE1547
Warranty 10 years limited