

ELIOS | Inversa 1510

10/15KW-48V All in One Hybrid Solar Inverter Charger

Data Sheet



The Elios Inversa1510 is a 10KW All-in-One Inverter Charger with 15KW solar input, seamlessly integrating solar, grid power, and battery storage. Ideal for residential and commercial use, it features a solar and battery inverter in a single unit, converting DC to AC for appliances. With a user-friendly interface and advanced protections, it ensures efficient energy management, reducing bills and increasing energy independence.

Features & Benefits

-  Simple interface for easy monitoring and control of solar energy systems.
-  Charges batteries using AC grid or solar panels for flexible energy management.
-  Remote performance tracking and settings adjustment for optimal operation.
-  Includes overvoltage and overcurrent protections for safety.
-  Connect multiple units to increase power capacity as needed.
-  120/240VAC, 1 phase or 120/208VAC, 3 phase (need 3 units at least).

Certifications

UL 1741/CSA C22.2/UL 1699B | UL 1741SB | IEEE 1547:2018 | HECO SRD 2.0 | FCC Part 15 ClassB

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GENERAL DATA

Max. Operation Altitude	2000m
Ingress Protection Degree	IP65/NEMA 3R
Operating Temperature Range	-25 ~60°C (>45°C derating)
Relative Humidity	0~100%
Cooling Method	Fan Cooling
Mounting	Wall Bracket
Dimensions (W x H x D)	16.5 x 31.5 x 9.4 in (420 x 800 x 240 mm)
Weight	40Kg (88lbs.)
PV Connection Way	Terminals

PV INPUT DATA

Max. PV Configuration	200%
Max. PV Input Power	15,000W
Max. PV Voltage	600V
Start-up Voltage	90V
MPPT Operating Voltage Range	70V-540V
Max. Input Current per MPPT	30A/22A/22A
Max. Short Current per MPPT	40A/30A/30A
Nos. of MPPT	3

GRID OUTPUT DATA

Nominal AC Output Power	10,000W
Max. AC Output Apparent Power	11,000VA
Max. AC Output Power (PF=1)	11,000W
Nominal AC Output Current	41.7A
Max. AC Output Current	45.8A
Nominal Grid Voltage	120/240V(Split phase) / 208V(2/3 phase)V AC
Nominal Grid Frequency	50/60 Hz
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz(Adjustable)
Power Factor	>0.99@rated power (Adjustable 0.8LD~0.8LG)
THDI	<3% (Rated Power)

BACK UP OUTPUT DATA

Nominal Output Power	10,000W
Max. AC Output Power (PF=1)	11,000W
Nominal Output Current	41.7A
Peak Power (1s)	20,000VA
Nominal Output Voltage	120/240V(Split phase) / 208V(2/3 phase)V AC
Nominal Output Frequency	50/60 Hz
Transfer Time	<10ms (typical)
THDI	<3% @100% R Load

GENERAL DATA

Compatible Battery Type	Lithium-ion/Lead-acid
Nominal Battery Voltage (Full load)	48V
Battery Voltage Range	40V-64V
Max. Charge/Discharge Current	210A/210A
Max. Charge/Discharge Power	10,000W/10,000W

PROTECTION

Protection Category	Class I
DC Switch	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC/AC Overvoltage Protection	DC Type II, AC Type III
AC Short Circuit Protection	Yes
DC Reverse Protection	Yes
Surge Arrester	DC Type II , AC Type II
Insulation Resistance Detection	Yes
Leakage Current Protection	Yes
AFCI	Yes
RSD	Yes
Generator	Yes

Applications

- Solar Energy System
- Back-Up Energy Systems
- Home, Office, and Trailer
- Outfitter
- Industrial
- Commercial
- Agricultural

Warranty

- 5-year warranty

Dimensions

