ENERA
energy transition

Designed & Engineered in Italy

STORAGE INVERTERS
SOLAR

50Hz & 60Hz

E013

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GREEN ENERGY SOLUTIONS

Overview

Enetra is a pioneering manufacturer in the design and production of high-quality solar and power generation products. Our commitment to innovation, reliability, and efficiency drives us to deliver cutting-edge green solutions that power a wide range of applications globally.

Mission

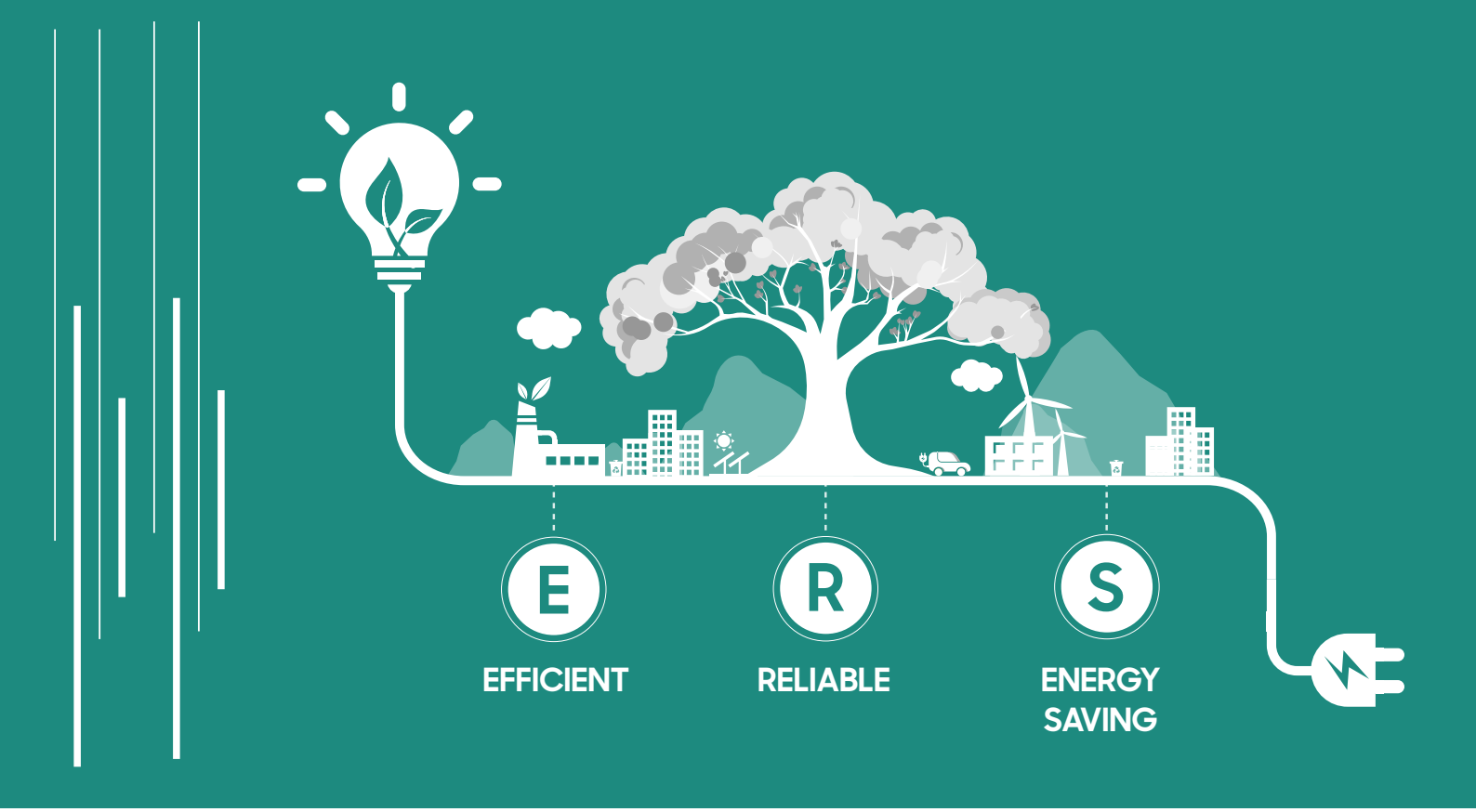
Our mission is to lead the industry by providing advanced technologies that ensure optimal performance, durability, efficiency and sustainability. We aim to empower our clients with reliable eco-friendly solutions that support their operational needs and contribute to a greener future.

Vision

To be the global leader in generator technology, recognized for our innovation, quality, and customer-centric approach. We envision a world where our products are at the heart of sustainable and efficient energy systems, enhancing lives and businesses everywhere.

Global Reach

Enetra has a broad international presence, serving clients across multiple continents. Our global distribution network ensures that our products are available wherever they are needed, supported by a comprehensive after-sales service program.



Technology and Innovation

Enetra invests significantly in research and development to stay at the forefront of the world's technology and trends. Our state-of-the-art R&D facility is equipped with the latest tools and staffed by a team of highly skilled engineers and researchers dedicated to innovation and continuous improvement.

Quality Assurance

Quality is at the core of everything we do. Enetra's manufacturing processes adhere to strict quality control standards, ensuring that each product meets the highest levels of performance and reliability. Our facilities are ISO-certified, reflecting our commitment to excellence and customer satisfaction.

Sustainability

At Enetra, we are committed to sustainable practices. Our products are designed to be energy-efficient and environmentally friendly. We strive to minimize our ecological footprint through responsible manufacturing processes, energy-saving technologies, and promoting the use of renewable energy sources.

Customer Support

We offer extensive technical support and training programs to ensure our clients get the most out of their Enetra generators.

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GREEN ENERGY SOLUTIONS

SOLAR PRODUCTS

- MODULES
- INVERTERS
- VFD'S
- BATTERIES
- SOLAR PUMPS
- SOLAR LIGHTS

POWER GENERATION

- GASOLINE INVERTERS & DIESEL GENERATORS
- ALTERNATORS

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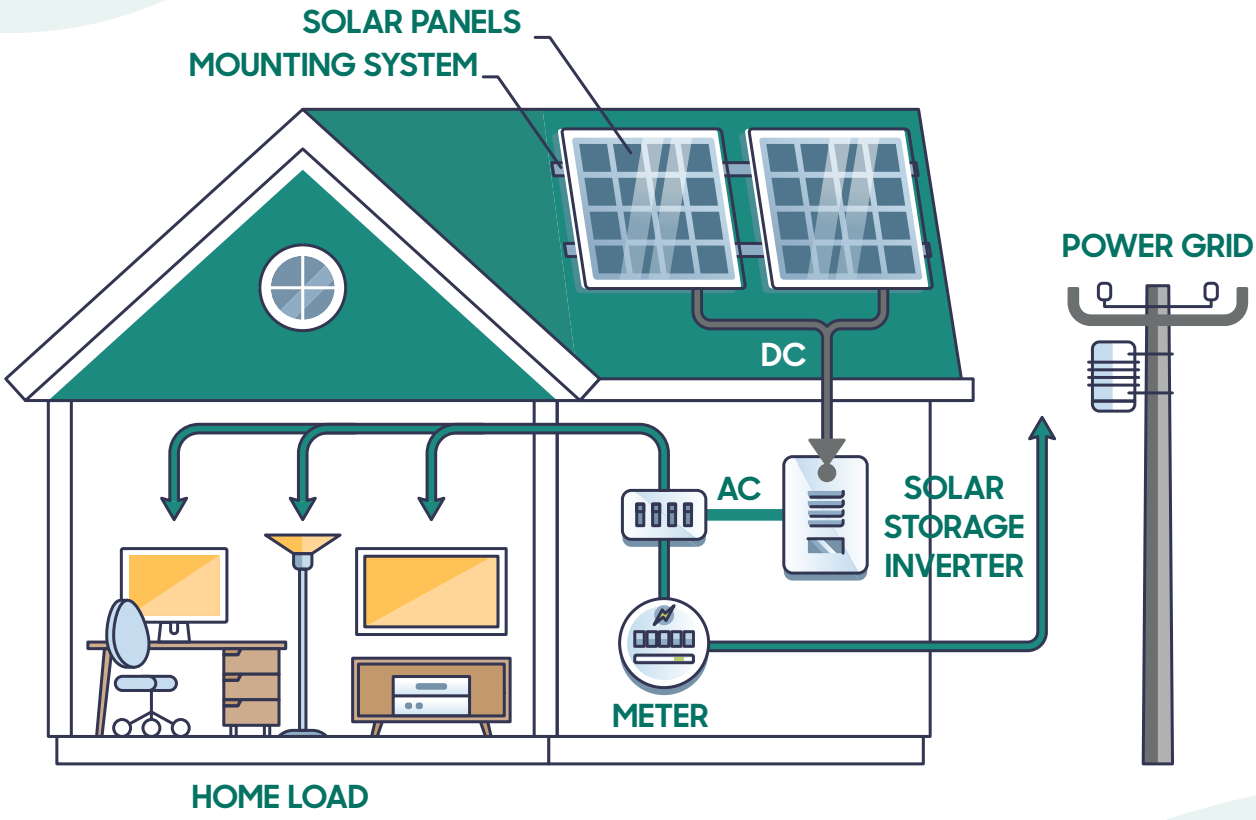
INVERTERS

CONNECTION DIAGRAM

Solar energy storage systems are used to regulate energy distribution and convert the energy collected by PV panels into AC energy.



The inverter communicates with all components of a typical solar system:

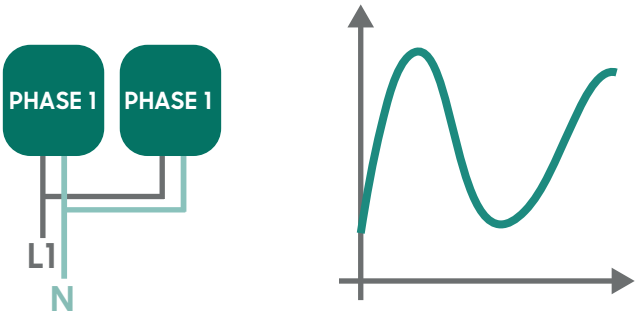
- Solar Panels
- Utility Grid
- Generator
- Battery
- Home Load

The most important function is to absorb photovoltaic electricity and convert it into AC energy. With the help of a battery, the AC energy may be sgtored for a more efficient system

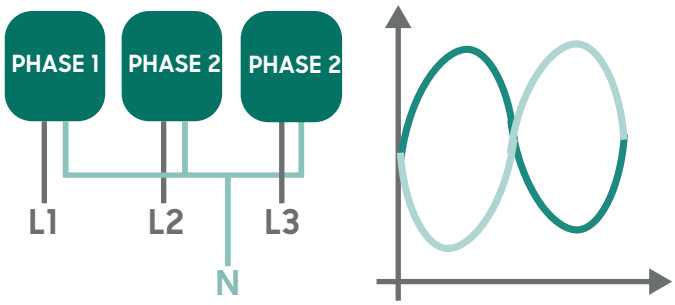
PARALLEL CONNECTION

For models that support parallel use

Supports parallel connection of 1 to 6 inverters, each with the same phase output, for a single phase output with power stacking



Supports 3 to 6 inverters in paralle, with L1, L2 and L3 each consisting of at least one inverter to form a three phase output



Output Mode

- Self - Use

Inverter can store energy in the battery to meet the electricty needs. User can prioritize the energy source to maximize result.

Used for stable power

- Without battery

Inverter directly converty photovoltaic energy to AC energy.

Used for clean energy and reducing cost

- On Grid

Inverter can feed excess power back into the grid. User can gain revenue from the sale of electricity.

Used for reducing electrical costs

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EL LV SERIES

EL 1210-S60-LV

EL 1215-S60-LV

- Suitable for off grid applications
- Stable output of sine waves
- Multiple charge/discharge modes
- Supports self use without battery output mode

SOLAR STORAGE INVERTER

EI-HV SERIES

HIGH VOLTAGE

CE ISO9001

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SOLAR STORAGE INVERTER

EI-HV SERIES
HIGH VOLTAGE

INVERTER OUTPUT	EI 2430-S80-HV	EI 4850-S80-HV
Rated output power	3,300 W	5,000 W
Max. peak power	6,000 VA	10,000 VA
Rated output voltage	230 Vac (1 phase)	
Load capacity of motors	2HP	4HP
Rated AC frequency	50 / 60 Hz	

BATTERY		
Battery type	Li-ion/lead-acid / user Defined	
Rated battery voltage	24 Vdc	48 Vdc
Max. MPPT charging current	80A	
Max. Mains / generator charging current	80 A	60 A
Max. hybrid charging current	80A	

Num. of MPPT trackers	1	
Max. PV array power	4,000 W	5,500 W
Max. input current	13 A	22A
Max. voltage of open circuit	500 Vdc	

Input voltage range	170 ~ 280 Vac	
Frequency range	50 Hz / 60Hz	
Bypass overload current	30 A	40 A

Dimensions	378 x 280 x 103 mm	426 x 322 126mm
weight	6.8 Kg	10.9 Kg
protection degree	IP20, indoor only	
Operating temperature range	-10 °C - 55°C	
Noise	<60 dB	
Cooling method	Internal fan	

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EI-LV SERIES

LOW VOLTAGE

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EI-LV SERIES
LOW VOLTAGE

INVERTER OUTPUT	EI 1210-S60-LV	EI 1215-S60-LV
Rated output power	1,000 W	1,500 W
Max. peak power	2,000 VA	3,000 VA
Rated output voltage	230 Vac (1 phase)	
Load capacity of motors	1 HP	
Rated AC frequency	50 / 60 Hz	

BATTERY	
Battery type	Li-ion/lead-acid / user Defined
Rated battery voltage	12 Vdc
Max. MPPT charging current	60A
Max. Mains / generator charging current	60 A
Max. hybrid charging current	120 A

Num. of MPPT trackers	1
Max. PV array power	1,000 W
Max. input current	28.5 A
Max. voltage of open circuit	108 Vdc

Input voltage range	170 ~ 280 Vac	
Frequency range	50 Hz / 60Hz	
Bypass overload current	6.5 A	9.7 A

Dimensions	357.5 x 235 x 103 mm
weight	5.5 Kg
protection degree	IP20, indoor only
Operating temperature range	-10 °C - 55°C
Noise	<60 dB
Cooling method	Internal fan

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EL NPE SERIES

EI 4880-S180-NPE
EI 48100-S200-NPE
EI 4880-SH3-NPE
EI 48100-SH3-NPE
EI 48120-SH3-NPE

- Supports lithium battery BMS function
- Supports lithium battery BMS function
- Supports self use without battery output mode
- Dual MPPT, with up to 99.9% efficiency
- Reduces no-load energy loss

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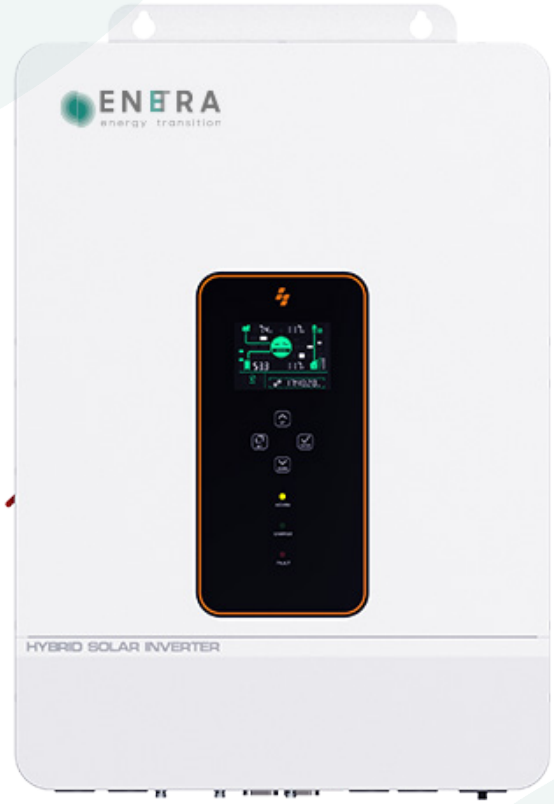
EI-NPE SERIES



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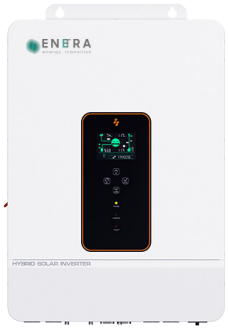
EI-NPE SERIES



INVERTER OUTPUT	EI 4880-S180-NPE	EI 48100-S200-NPE
Rated output power	8,000 W	5,000 W
Max. peak power	16,000 VA	10,000 VA
Rated output voltage	230 Vac (1 phase / 3 phase ; 1-6 units parallel)	
Load capacity of motors	5 HP	6 HP
Rated AC frequency	50 / 60 Hz	

BATTERY		
Battery type	Li-ion/lead-acid / user Defined	
Rated battery voltage	48 Vdc	
Max. MPPT charging current	180 A	200 A
Max. Mains / generator charging current	100 A	120 A
Max. hybrid charging current	180 A	200 A

Num. of MPPT trackers / Voltage range	2 / 125 ~ 425 Vdc	
Max. PV array power	5,500 W + 5,500 W	
Max. input current	22 A + 22 A	
Max. voltage of open circuit	500 Vdc + 500 Vdc	

Input voltage range	90 ~ 275 Vac	
Frequency range	50 Hz / 60Hz	
Bypass overload current	63 A	

Dimensions	620 x 445 x 130 mm	
weight	27 Kg	
protection degree	IP20, indoor only	
Operating temperature range	-15 °C - 55°C, 45°C derated	
Noise	<60 dB	
Cooling method	Internal fan	

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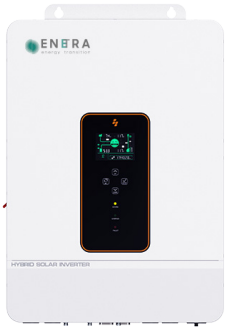
EI-NPE SERIES



INVERTER OUTPUT	EI 4880-SH3-NPE	EI 48100-SH3-NPE
Rated output power	8,000 W	10,000 W
Max. peak power	16,000 VA	20,000 VA
Rated output voltage	230 / 400 Vac (3 phase ; 1-6 units parallel)	
Load capacity of motors	5 HP	6 HP
Rated AC frequency	50 / 60 Hz	

BATTERY		
Battery type	Li-ion/lead-acid / user Defined	
Rated battery voltage	48 Vdc	
Max. Mains / generator charging current	100 A	120 A
Max. hybrid charging current	180 A	200 A

Num. of MPPT trackers / Voltage range	2 / 200 ~ 650 Vdc	
Max. PV array power	6,000 W + 6,000 W	7,500 W + 7,500 W
Max. input current	22 A + 22 A	
Max. voltage of open circuit	800 Vdc + 800 Vdc	

Input voltage range	Phase voltage 170~280 V, line voltage 305-485V	
Frequency range	50 Hz / 60Hz	
Bypass overload current	23.2 A	29 A

Dimensions	620 x 445 x 130 mm
weight	27 Kg
protection degree	IP20, indoor only
Operating temperature range	-15 °C - 55°C, 45°C derated
Noise	<60 dB
Cooling method	Internal fan

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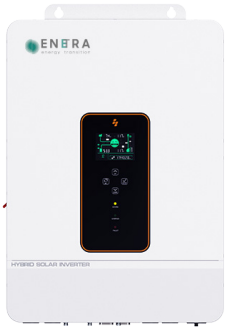
EI-NPE SERIES



INVERTER OUTPUT	EI 4880-SH3-NPE
Rated output power	12,000 W
Max. peak power	24,000 VA
Rated output voltage	230 / 400 Vac (3 phase ; 1-6 units parallel)
Load capacity of motors	6 HP
Rated AC frequency	50 / 60 Hz

BATTERY	
Battery type	Li-ion/lead-acid / user Defined
Rated battery voltage	48 Vdc
Max. Mains / generator charging current	120 A
Max. hybrid charging current	260 A

Num. of MPPT trackers / Voltage range	2 / 200 ~ 650 Vdc
Max. PV array power	9,000 W + 9,000 W
Max. input current	22 A + 22 A
Max. voltage of open circuit	800 Vdc + 800 Vdc

Input voltage range	Phase voltage 170~280 V, line voltage 305-485V
Frequency range	50 Hz / 60Hz
Bypass overload current	35 A

Dimensions	620 x 445 x 130 mm
weight	27 Kg
protection degree	IP20, indoor only
Operating temperature range	-15 °C - 55°C, 45°C derated
Noise	<60 dB
Cooling method	Internal fan

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