



wave

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1.5-3.3kW On-grid Inverter

EWOS-1.5/2.5/3.3K

| | | | |
|-----------------|------------------|------------------|----------------|
| 97.5% | 20A | 60V | 110% |
| Max. Efficiency | PV Input Current | Start-up Voltage | AC Overloading |

Single-Phase

1 MPPT



Optimal Power

- 97.5% Max. Efficiency
- 20A PV input current per string, 1 MPP tracker



Strong Load

- 110% continuous AC output overloading
- 60V Start-up Voltage, longer working hours with low start-up voltage



Convenient Installation & Operation

- Plug & Play terminals for easy wiring
- OLED display and App for setting and data management



Flexible Design & Use

- IP65 for indoor and outdoor installation
- Compact size and elegant appearance



The power operator

| Model | | EWOS-1.5K | EWOS-2.5K | EWOS-3.3K |
|----------------------------------|------------|-----------------------------|-------------------------------|-----------|
| PV Input | | | | |
| Recommended Max. Input Power | [kW] | 2.25 | 3.75 | 4.95 |
| Start-up Voltage | [V] | 60 | 60 | 60 |
| Max. DC Input Voltage* | [V] | 500* | 500* | 500* |
| Rated DC Input Voltage | [V] | 360 | 360 | 360 |
| MPPT Voltage Range* | [V] | 50-450* | 50-450* | 50-450* |
| No. of MPP Trackers | | 1 | 1 | 1 |
| No. of DC Inputs per MPPT | | 1 | 1 | 1 |
| Max. Input Current** | [A] | 20 | 20 | 20 |
| Max. Short-circuit Current | [A] | 25 | 25 | 25 |
| Grid Side | | | | |
| Rated Output Power | [kW] | 1.50 | 2.50 | 3.30 |
| Max. Output Power | [kW] | 1.65 | 2.75 | 3.30 |
| Rated Output Apparent Power | [kVA] | 1.50 | 2.50 | 3.30 |
| Max. Output Apparent Power | [kVA] | 1.65 | 2.75 | 3.30 |
| Rated AC Voltage | | L/N/PE; 220/230/240V | | |
| Rated AC Frequency | [Hz] | 50/60 | 50/60 | 50/60 |
| Rated Output Current | [A] | 6.50 | 10.90 | 14.40 |
| Max. Output Current | [A] | 7.20 | 12.00 | 14.40 |
| Power Factor | | 0.8 leading ... 0.8 lagging | | |
| Max. Total Harmonic Distortion | | <3% @Rated output power | | |
| DCI | | <0.5%In | <0.5%In | <0.5%In |
| Efficiency | | | | |
| Max. Efficiency | | 97.3% | 97.5% | 97.5% |
| European Efficiency | | 96.4% | 97.0% | 97.0% |
| MPPT Efficiency | | 99.9% | 99.9% | 99.9% |
| Protection | | | | |
| DC Reverse Polarity Protection | | | Integrated | |
| Insulation Resistance Protection | | | Integrated | |
| Surge Protection | | | Integrated | |
| Over-temperature Protection | | | Integrated | |
| Residual Current Protection | | | Integrated | |
| Islanding Protection | | | Integrated | |
| AC Over-voltage Protection | | | Integrated | |
| Overload Protection | | | Integrated | |
| AC Short-circuit Protection | | | Integrated | |
| General Data | | | | |
| Over Voltage Category | | | PV: II Main: III | |
| Dimensions | [W×H×D mm] | | 297×220×158 | |
| Weight | [KG] | | 6.0 | |
| Protection Degree | | | IP65 | |
| Self-Consumption at Night | [W] | | <1 | |
| Topology | | | Transformerless | |
| Operating Temperature Range | [°C] | | -30~60 | |
| Relative Humidity | [%] | | 0~100 | |
| Operating Altitude | [m] | | 3000 (>3000m derating) | |
| Cooling | | | Natural Convection | |
| Noise Level | [dB] | | <25 | |
| Display | | | OLED & LED | |
| Communication | | | RS485, WiFi/LAN/4G (Optional) | |

* PV Max. Input voltage is 450V, otherwise inverter will be waiting;

** The maximum input current supports 20A;



3.6-6kW On-grid Inverter

EWOS - 3.6/4.2/5/6K

| | | | |
|-----------------|------------------|------------------|----------------|
| 98.1% | 20A | 60V | 110% |
| Max. Efficiency | PV Input Current | Start-up Voltage | AC Overloading |

Single-Phase

1 MPPT



Optimal Power

- 98.1% Max. Efficiency
- 20A PV input current per string, 1 MPP tracker



Strong Load

- 110% continuous AC output overloading
- 60V Start-up Voltage, longer working hours with low start-up voltage



Convenient Installation & Operation

- Plug & Play terminals for easy wiring
- OLED display and App for setting and data management



Flexible Design & Use

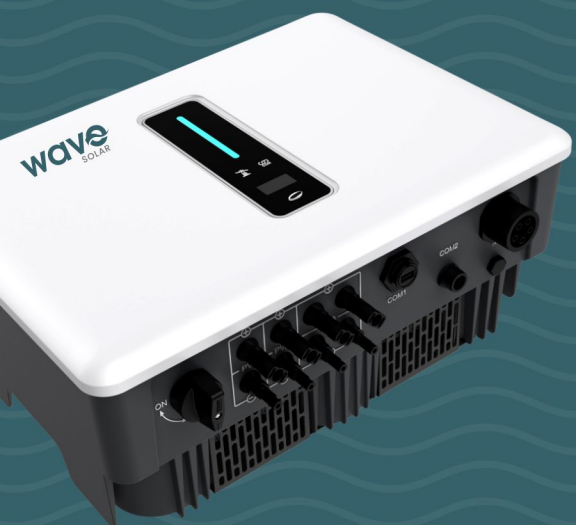
- Ip65 for indoor and outdoor installation
- Compact size and elegant appearance



The power operator

| Model | | EWOS-3.6K | EWOS-4.2K | EWOS-5K | EWOS-6K |
|----------------------------------|------------|-------------------------------|---------------------|---------------------|---------|
| PV Input | | | | | |
| Recommended Max. Input Power | [kW] | 5.40 | 6.30 | 7.50 | 9.00 |
| Start-up Voltage | [V] | 60 | 60 | 60 | 60 |
| Max. DC Input Voltage* | [V] | 600* | 600* | 600* | 600* |
| Rated DC Input Voltage | [V] | 360 | 360 | 360 | 360 |
| MPPT Voltage Range* | [V] | 50-550* | 50-550* | 50-550* | 50-550* |
| No. of MPP Trackers | | 1 | 1 | 1 | 1 |
| No. of DC Inputs per MPPT | | 1 | 1 | 1 | 1 |
| Max. Input Current | [A] | 20 | 20 | 20 | 20 |
| Max. Short-circuit Current | [A] | 25 | 25 | 25 | 25 |
| Grid Side | | | | | |
| Rated Output Power | [kW] | 3.60 | 4.20 | 5.00 ⁴⁾ | 6.00 |
| Max. Output Power | [kW] | 3.96 ¹⁾ | 4.60 | 5.50 ⁵⁾ | 6.00 |
| Rated Output Apparent Power | [kVA] | 3.60 | 4.20 | 5.00 ⁶⁾ | 6.00 |
| Max. Output Apparent Power | [kVA] | 3.96 ²⁾ | 4.60 | 5.50 ⁷⁾ | 6.00 |
| Rated AC Voltage | | L/N/PE; 220/230/240V | | | |
| Rated AC Frequency | [Hz] | 50/60 | 50/60 | 50/60 | 50/60 |
| Rated Output Current | [A] | 15.70 | 18.30 | 21.70 ⁸⁾ | 26.10 |
| Max. Output Current | [A] | 18.00 ³⁾ | 21.00 ⁸⁾ | 25.00 ⁹⁾ | 26.10 |
| Power Factor | | 0.8 leading ... 0.8 lagging | | | |
| Max. Total Harmonic Distortion | | <3% @Rated output power | | | |
| DCI | | <0.5%In | <0.5%In | <0.5%In | <0.5%In |
| Efficiency | | | | | |
| Max. Efficiency | | 98.1% | 98.1% | 98.1% | 98.1% |
| European Efficiency | | 97.5% | 97.5% | 97.5% | 97.5% |
| MPPT Efficiency | | 99.9% | 99.9% | 99.9% | 99.9% |
| Protection | | | | | |
| DC Reverse Polarity Protection | | Integrated | | | |
| Insulation Resistance Protection | | Integrated | | | |
| Surge Protection | | Integrated | | | |
| Over-temperature Protection | | Integrated | | | |
| Residual Current Protection | | Integrated | | | |
| Islanding Protection | | Integrated | | | |
| AC Over-voltage Protection | | Integrated | | | |
| Overload Protection | | Integrated | | | |
| AC Short-circuit Protection | | Integrated | | | |
| General Data | | | | | |
| Over Voltage Category | | PV: II Main: III | | | |
| Dimensions | [W×H×D mm] | 358×300×158 | | | |
| Weight | [KG] | 9.8 | | | |
| Protection Degree | | IP65 | | | |
| Self-Consumption at Night | [W] | <1 | | | |
| Topology | | Transformerless | | | |
| Operating Temperature Range | [°C] | -30~60 | | | |
| Relative Humidity | [%] | 0~100 | | | |
| Operating Altitude | [m] | 3000 (>3000m derating) | | | |
| Cooling | | Natural Convection | | | |
| Noise Level | [dB] | <25 | | | |
| Display | | OLED & LED | | | |
| Communication | | RS485, WiFi/LAN/4G (Optional) | | | |

* PV Max. Input voltage is 550V, otherwise inverter will be waiting;



5-25kW On-grid Inverter

EWOS - 5/6/8/10/12/20/25K

EWOS - 8/10/12/15K-P

98.6%

Max. Efficiency

15A

PV Input Current

180V

Start-up Voltage

Three-Phase

Residential

Commercial



Optimal Power

- 98.6% Max. Efficiency
- 15A PV input current per string, 2-3 MPP trackers



Strong Load

- 180V Start-up Voltage, longer working hours with low start-up voltage



Convenient Installation & Operation

- Plug & Play terminals for easy wiring
- OLED display and App for setting and data management



Flexible Design & Use

- IP65 for indoor and outdoor installation
- Compact size and elegant appearance



The power operator

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| Model | EWOS-5K | EWOS-6K | EWOS-8K (EWOS-8K-P) | EWOS-10K (EWOS-10K-P) | EWOS-12K (EWOS-12K-P) | EWOS-15K-P | EWOS-20K | EWOS-25K |
|----------------------------------|---------------------------------------|-------------|------------------------|--------------------------|------------------------------------|----------------|----------------|----------------|
| PV Input | | | | | | | | |
| Start-up Voltage [V] | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| Max. DC Input Voltage* [V] | 1100* | 1100* | 1100* | 1100* | 1100* | 1100* | 1100* | 1100* |
| Rated DC Input Voltage [V] | 620 | 620 | 620 | 620 | 620 | 620 | 620 | 620 |
| Operating voltage range* [V] | 160-950* | 160-950* | 160-950* | 160-950* | 160-950* | 160-950* | 160-950* | 160-950* |
| No. of MPP Trackers | 2 | 2 | 2; (3) | 2; (3) | 3 | 3 | 3 | 3 |
| No. of DC Inputs per MPPT | 1/1 | 1/1 | 1/1; (1/1/1) | 1/1; (1/1/1) | 1/1/1; (1/1/2) | 1/1/2 | 1/1/2 | 1/1/2 |
| Max. Input Current [A] | 15/15 | 15/15 | 15/15; (15/15/15) | 15/15; (15/15/15) | 15/15/15; (15/15/30) | 15/15/30 | 15/15/30 | 15/15/30 |
| Max. Short-circuit Current [A] | 20/20 | 20/20 | 20/20; (20/20/20) | 20/20; (20/20/20) | 20/20/20; (20/20/40) | 20/20/40 | 20/20/40 | 20/20/40 |
| Grid Side | | | | | | | | |
| Rated Output Power [kW] | 5.0 | 6.0 | 8.0 | 10.0 | 12.0 | 15.0 | 20.0 | 25.0 |
| Max. Output apparent Power [kVA] | 5.0 | 6.0 | 8.0 | 10.0 | 12.0 | 15.0 | 20.0 | 25.0 |
| Rated AC Voltage | 3L/N/PE; 220/380V; 230/400V; 240/415V | | | | | | | |
| Rated AC Frequency [Hz] | 50/60 | | | | | | | |
| Rated Output Current [A] | 7.6/7.2/6.9 | 9.1/8.7/8.3 | 12.1/11.6/11.1 | 15.2/14.5/13.9 | 18.2/17.4/16.7 | 22.7/21.7/20.8 | 30.3/29.0/27.8 | 37.9/36.2/34.7 |
| Max. Output Current [A] | 7.6 | 9.1 | 12.1 | 15.2 | 18.2 | 22.7 | 30.3 | 37.9 |
| Power Factor | 0.8 leading ... 0.8 lagging | | | | | | | |
| Max. Total Harmonic Distortion | <3% @Rated output power | | | | | | | |
| DCI | <0.5%In | | | | | | | |
| Efficiency | | | | | | | | |
| Max. Efficiency | 98.1% | 98.3% | 98.3% | 98.6% | 98.6% | 98.6% | 98.6% | 98.6% |
| European Efficiency | 97.9% | 98.0% | 98.0% | 98.2% | 98.2% | 98.2% | 98.2% | 98.2% |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |
| Protection | | | | | | | | |
| DC Reverse Polarity Protection | Integrated | | | | | | | |
| Insulation Resistance Protection | Integrated | | | | | | | |
| Surge Protection | Integrated | | | | | | | |
| Over-temperature Protection | Integrated | | | | | | | |
| Residual Current Protection | Integrated | | | | | | | |
| Islanding Protection | Integrated (Frequency shift) | | | | | | | |
| AC Over-voltage Protection | Integrated | | | | | | | |
| Overload Protection | Integrated | | | | | | | |
| AC Short-circuit Protection | Integrated | | | | | | | |
| General Data | | | | | | | | |
| Over Voltage Category | PV: II Main: III | | | | | | | |
| Dimensions [W×H×D mm] | 465×335×200 | | | | | | | |
| Weight [KG] | 19 | | 19; (21) | | 21 | | 23 | |
| Protection Degree | IP65 | | | | | | | |
| Self-Consumption at Night [W] | <1 | | | | | | | |
| Topology | Transformerless | | | | | | | |
| Operating Temperature Range [°C] | -30~60 | | | | | | | |
| Relative Humidity [%] | 0~100 | | | | | | | |
| Operating Altitude [m] | 3000 (>3000m derating) | | | | | | | |
| Cooling | Natural Convection | | | | Natural Convection; (Smart Fan) | | Smart Fan | |
| Noise Level [dB] | <25 | | | | <25; (<40) | | <40 | |
| Display | OLED & LED | | | | | | | |
| Communication | RS485, WiFi/LAN/4G (Optional) | | | | | | | |

* PV Max. Input voltage is 950V, otherwise inverter will be waiting;



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Wave Solar is a leading manufacturer specializing in high-performance solar inverters. Our innovative products are designed to efficiently convert solar energy into usable electricity, enhancing the performance and reliability of solar power systems. We prioritize cutting-edge technology, durability, and energy efficiency to meet the evolving needs of both residential and commercial applications. At Wave Solar, our commitment to quality and customer satisfaction drives us to deliver advanced solutions that support a sustainable future.

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A EARTHWAVE PRODUCT

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