

KP100L PHOTOVOLTAIC INVERTER

Highest quality - fastest return on investment

CO2削減

品質

系統保護

再生エネルギー



» Smart control for solar tracker

» Top performance

» Versatile matching

The right inverter every time

As a world leader in industrial automation, Omron has a reputation for high quality and reliability, which also extends to our range of PV solutions. Our commitment to this is reflected in the latest addition to our solar range - the KP100L. This new inverter offers smart control and advanced performance.

It can also be used with any kind of solar panel or monocrystal and polycrystal module.

This simplifies the selection task, making the KP100L Solar Inverter the right choice every time.

The KP100L's versatile matching enables monocrystal and polycrystal solar modules. Furthermore, three MPPT (Maximum Power Point Trackers) devices with a wide MPPT voltage range mean that maximum output power and high efficiency are assured. This is made possible by special electronic circuitry, which was jointly developed between Omron and a leading Japanese University.



Features at a glance

- Smart control for solar tracker – one-stop solution (control components & software)
- Top-level performance – 3 MPPT devices with wide MPPT voltage range ensure maximum output power
- Versatile matching - monocrystal and polycrystal solar modules on the same inverter driven by different MPPT
- Utmost reliability through high quality
- Easy monitoring – solutions for monitoring & remote control available



Fast return on investment

Omron technology delivers high performance and efficiency that will achieve the fastest return on investment.



Total solution & smart control

Omron provides a complete solar solution including all peripheral equipment, hardware and software for solar tracker positioning.



Always the right choice

Mono or poly crystal – the KP100L is compatible with most types of solar panels.



Highest quality and reliability

Omron's reputation for high quality is world renowned and this guarantees high reliability. That's why Omron offers a 5 year warranty as standard.

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信頼性

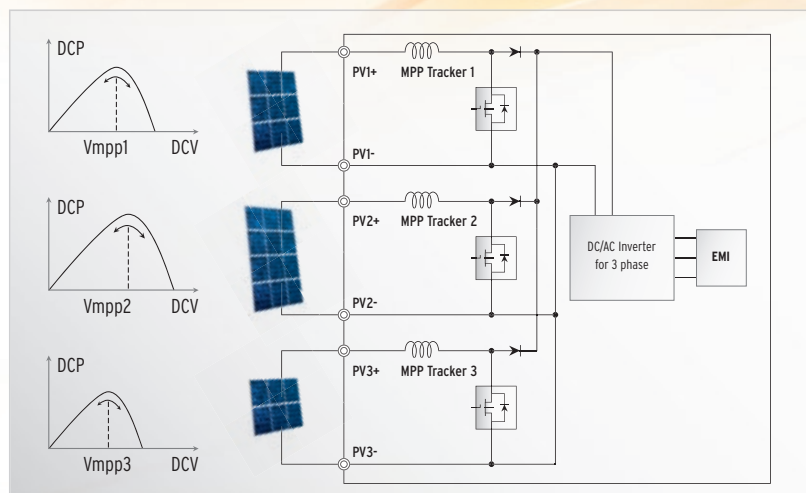
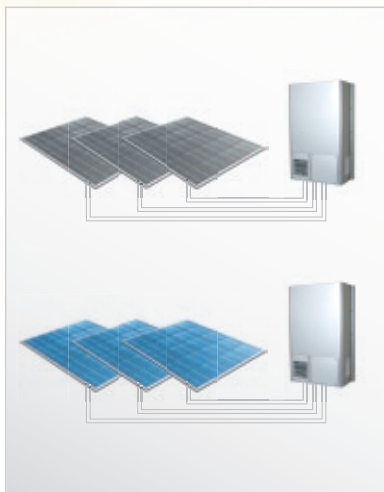


Technology that gives you the edge

Top performance

The KP100L has 3 individual MPPT (Maximum Power Point Tracker) devices and ensures high power efficiency and maximum power output at all times. Key to Omron's highly efficient technology is a special ZCC circuit. This circuit topology of the Zigzag-Connected Chopper Converter was invented by Dr. Hideaki Fujita, who is an Associate Professor at the Tokyo Institute of Technology.

Control components
Motion and Drives
 Automation systems
 Switching components
Sensing
Safety



Versatile matching

KP100L is a transformerless inverter. Our technology enables the connection of most types of solar module. In case of doubt regarding a PV modules compatibility please contact Omron representatives.

Easy sizing

The KP100L has 3 individual MPP (Maximum Power Point Trackers), which convert PV input into a common BUS voltage and search for the maximum power point of PV input at all times. Designers can connect differently aligned PV strings as a DC input from a wide MPP voltage range.



Easy monitoring

Omron can provide monitoring solutions to meet any requirement. Shown here is a simple setup using a PLC.



Remote control and monitoring system

Acquisition and monitoring of data from different locations can be achieved using the system architectures shown.

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Automation Systems

- Programmable logic controllers (PLC) • Human machine interfaces (HMI) • Remote I/O
- Industrial PC's • Software

Motion & Drives

- Motion controllers • Servo systems • Inverters

Control Components

- Temperature controllers • Power supplies • Timers • Counters • Programmable relays
- Digital panel indicators • Electromechanical relays • Monitoring products • Solid-state relays
- Limit switches • Pushbutton switches • Low voltage switch gear

Sensing & Safety

- Photoelectric sensors • Inductive sensors • Capacitive & pressure sensors
- Cable connectors • Displacement & width-measuring sensors • Vision systems
- Safety networks • Safety sensors • Safety units/relay units • Safety door/guard lock switches