

# KC16T, KC21T, KC32T

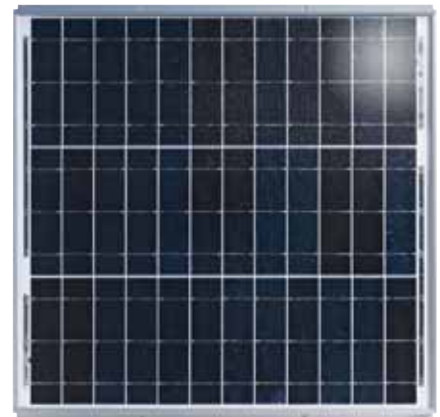
High efficiency multicrystal photovoltaic module



*KC16T*  
*KC16T02*



*KC21T*  
*KC21T02*



*KC32T*  
*KC32T02*

## CUTTING-EDGE TECHNOLOGY

Exhaustive research work, continuous further development of production processes and highly automated production enable polycrystalline Kyocera solar modules to attain an exceptional standard of quality and markedly high levels of efficiency.

The integrated Kyocera high-performance solar cells with a standard size of 150 mm x 155 mm achieve up to 16 % efficiency, guaranteeing an extremely high annual yield of energy from the photovoltaic system.

To protect against the harshest weather conditions, the cells are embedded between a reinforced glass covering (hailstorm resistance complying with IEC 61215) and EVA foil, and are sealed with a PET foil backing. The laminate is set in a sturdy aluminum frame which is easy to assemble.

Kyocera manufactures all the components at its own production sites – without buying in semi-finished products – to ensure consistently high product quality.

## EXAMPLES OF APPLICATION

- Stand-alone systems (electrifying remote houses, holiday homes and allotment systems, etc.)
- Supplying electricity to outlying villages and medical institutions in rural areas and development zones
- Emergency power supply, protection against catastrophes
- Pumping systems (drinking water supply and irrigation)
- Telecommunications (mobile phone networks, booster stations, etc.)
- Stand-alone industrial applications (parking meter)

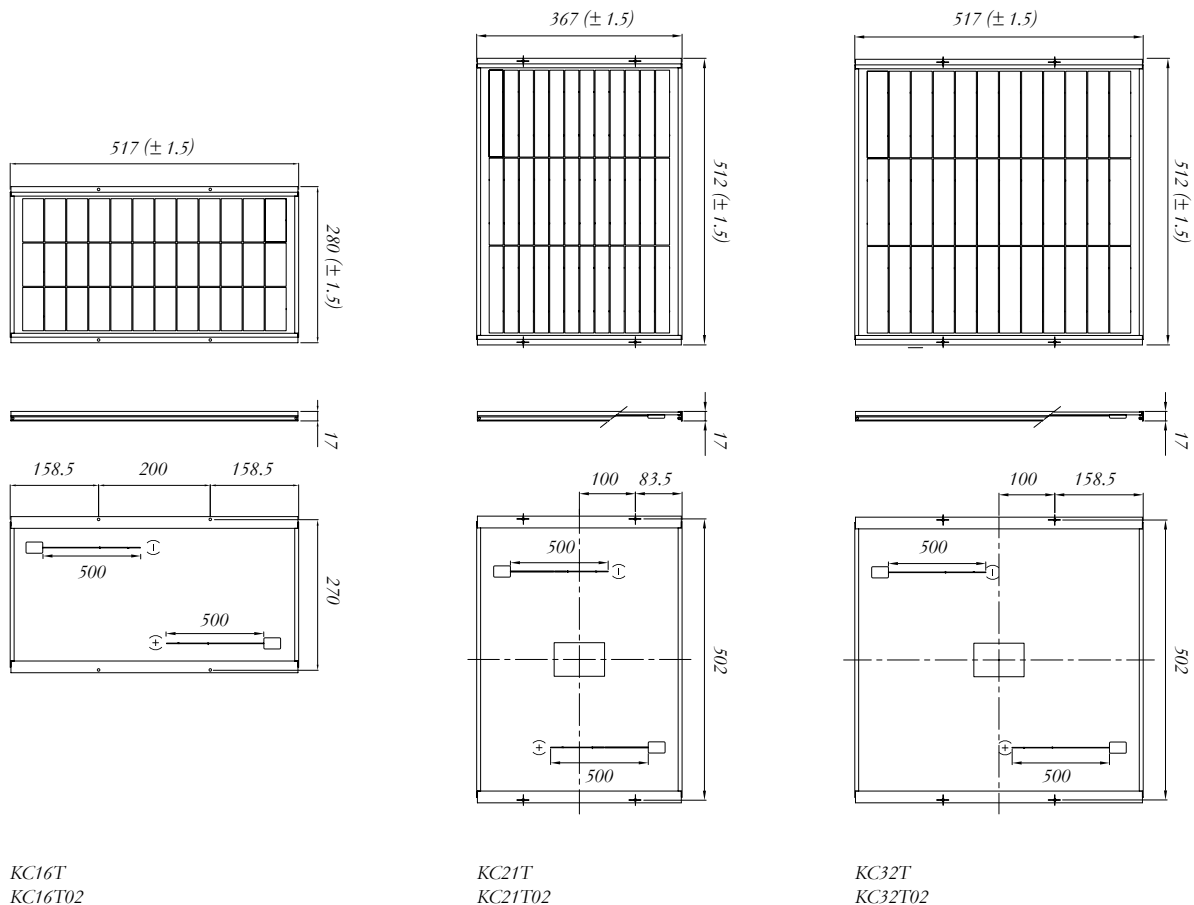
IEC 61215 · Kyocera is ISO 9001 and ISO 14001 certified and registered.

**KYOCERA  
SOLAR**

**We care!**

## SPECIFICATIONS

in mm



## ELECTRICAL CHARACTERISTICS

| PV Module Type                           | KC16T        | KC21T    | KC32T    |
|--|--------------|----------|----------|
|  | KC16T02      | KC21T02  | KC32T02  |
| <b>At 1000 W/m<sup>2</sup> (STC)*</b>    |              |          |          |
| Maximum Power                            | [W] 16       | 21       | 32       |
| Maximum System Voltage                   | [V] 50       | 50       | 50       |
| Maximum Power Voltage                    | [V] 17.4     | 17.4     | 17.4     |
| Maximum Power Current                    | [A] 0.93     | 1.21     | 1.84     |
| Open Circuit Voltage (V <sub>oc</sub> )  | [V] 21.7     | 21.7     | 21.7     |
| Short Circuit Current (I <sub>sc</sub> ) | [A] 1.0      | 1.3      | 1.99     |
| Power Tolerance                          | [%] +15 / -5 | +15 / -5 | +15 / -5 |

## DIMENSIONS

|                            | [mm] | 517 (±1.5)      | 367 (±1.5)      | 517 (±1.5)      |
|----------------------------|------|-----------------|-----------------|-----------------|
| Length                     | [mm] | 280 (±1.5)      | 512 (±1.5)      | 512 (±1.5)      |
| Width                      | [mm] | 17              | 17              | 17              |
| Depth / incl. Junction Box | [kg] | 1.6             | 2.0             | 2.8             |
| Weight                     | [mm] | (+)500 / (-)500 | (+)500 / (-)500 | (+)500 / (-)500 |
| Cable (without plugs)      |      | IP65            | IP65            | IP65            |
| IP Code                    |      |                 |                 |                 |

## GENERAL INFORMATION

|                       | 5** / 10 years*** | 5** / 10 years*** | 5** / 10 years*** |
|-----------------------|-------------------|-------------------|-------------------|
| Performance Guarantee | 2 years           | 2 years           | 2 years           |
| Warranty              |                   |                   |                   |

## CELLS

|                   | 36              | 36              | 36              |
|-------------------|-----------------|-----------------|-----------------|
| Number per Module | polycrystalline | polycrystalline | polycrystalline |
| Cell Technology   | rectangular     | rectangular     | rectangular     |
| Cell Shape        |                 |                 |                 |

\* Electrical values under standard test conditions (STC): irradiation of 1000 W/m<sup>2</sup>, airmass AM 1.5 and cell temperature of 25 °C.

\*\* 5 years on 90 % of the minimally specified power P under standard test conditions (STC)

\*\*\* 10 years on 90 % of the minimally specified power P under standard test conditions (STC) for all module types with the ending T02

These modules are designed for the use in off-grid systems with a max. system voltage below 50 V DC only.  
These modules may be placed on the market in the European Community or respectively imported into the European Economic Area (EEA) without CE-marking as they do not fall into the scope of the Low Voltage Directive (2006/95/EC).

Your local Kyocera dealer:

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SOLAR**

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