



6400M
7600M



Maximize output. Perfect monitoring.

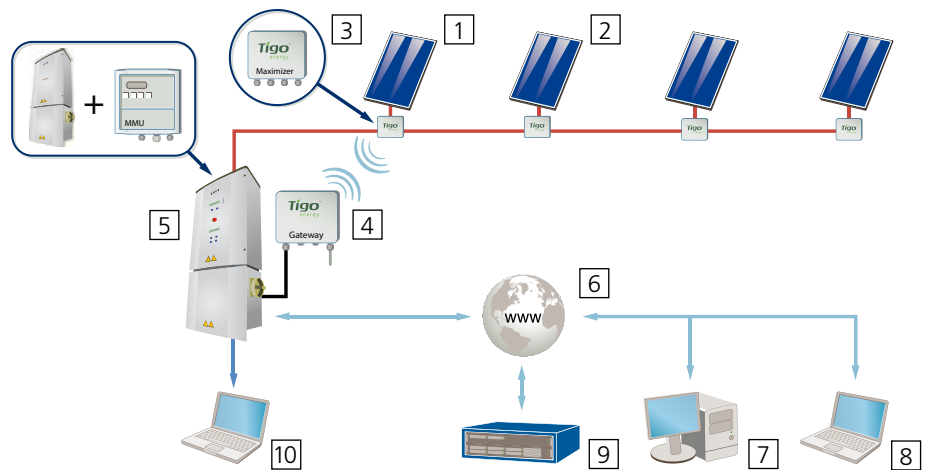
The blueplanet 6400M/7600M inverter with integrated Tigo Maximizer Management Unit (MMU)

The Tigo Maximizer system consists of two main components: the Maximizer, an electronic component which is mounted directly on the module, and the Maximizer Management Unit (MMU), which represents the higher-level intelligence of the system.

The Tigo Maximizer optimizes the output power for each module, delivers all the relevant operating data for each module in real time, and allows you to disconnect each module for safe installation, maintenance, or when fighting a fire.

The Maximizer Management Unit communicates with all of the module Maximizers (wirelessly), controls all processes in real time, and sends the operating data to an external server. This allows for an online system monitoring with access for a number of users.

With the KACO blueplanet 6400M/7600M we now offer you a compact all-in-one solution. The Management Unit (MMU) of the Tigo energy Maximizer has been integrated into a blueplanet 00xi inverter thus combining the features of both devices within a single system: optimizing, transforming and monitoring of solar energy in one with the blueplanet 6400M/7600M.



- 1 2 PV modules with differing output power (mismatch)
- 3 The KACO Maximizer guarantees an optimum energy yield. It records the data for each module and transfers this data to the Maximizer Management Unit (MMU).
- 4 The Gateway receives and transmits all operating data of the Maximizers. It forms the communication interface between the Maximizers and the MMU.
- 5 blueplanet 6400M/7600M with integrated MMU
- 6 Internet
- 7 8 Display for end consumers: data analysis and monitoring
- 9 Data evaluation and data management
- 10 Display for technical personnel

| Model number | blueplanet 6400M | blueplanet 7600M |
|---|--|--|
| DC Electrical Specifications | | |
| DC maximum input voltage (VDC) | 600 | 600 |
| DC maximum peak power operating range (MPP) (VDC) (240 / 208 VAC) | 365 - 510 / 320 - 510 | 365 - 510 / 320 - 510 |
| DC operating range (MPP) (VDC) (240 / 208 VAC) | 365 - 510 / 320 - 510 | 365 - 510 / 320 - 510 |
| DC minimum start voltage (VDC) (240 / 208 VAC) | 365 - 320 | 365 - 320 |
| DC maximum operating current (ADC) | 21 | 24 |
| DC maximum short circuit current (ADC) | 36 | 36 |
| Maximum input source backfeed current (ADC) | 0 | 0 |
| DC input overload protection | Voltage and current limiting during operation | Voltage and current limiting during operation |
| DC input terminals / conductor size per channel A - B | 4 pos and 4 neg 4 - 12 AWG AL CU | 4 pos and 4 neg 4 - 12 AWG AL CU |
| AC Electrical Specifications | | |
| AC maximum continuous output power (W) | 6,400 | 7,600 |
| CEC weighted efficiency (%) | 96.5 | 96.5 |
| AC nominal voltage / operating range L to Neutral (VAC) (240 / 208 VAC) | 240 (211 - 264) / 208 (184 - 226) | 240 (211 - 264) / 208 (184 - 226) |
| AC continuous output current (A) (240 / 208 VAC) | 27 / 31 | 32 / 37 |
| AC branch circuit protection | 35 / 40 | 32 / 50 |
| Frequency nominal / range (Hz) | 60 / 60.5 to 59.3 | 60 / 60.5 to 59.3 |
| Power factor | > .99 | > .99 |
| Total harmonic distortion (%) | < 5 | < 5 |
| Standby losses (W) | < 0.5 | < 0.5 |
| AC input terminals and conductor | 4 / 4 - 12 AWG AL CU | 4 / 4 - 12 AWG AL CU |
| Maximum output fault current (AC) and duration A AC (µs) | 120 / 100 | 120 / 100 |
| AC synchronization in rush current (A AC) | 0.5 | 0.5 |
| Installation features | | |
| Integrated AC / DC disconnect | DC disconnect with 4 branch circuit OCPD fuses | DC disconnect with 4 branch circuit OCPD fuses |
| AC and DC surge protection | Yes | Yes |
| Inverter architecture | Transformerless, non isolated | Transformerless, non isolated |
| Mechanical and environmental specifications | | |
| Mounting | Wall mount | Wall mount |
| Enclosure construction | Aluminum | Aluminum |
| Unit weight (lbs / kg) | 108 / 49 | 108 / 49 |
| Unit dimensions H x W x D (in / mm) | 44 x 14 x 9 / 1118 x 356 x 229 | 44 x 14 x 9 / 1118 x 356 x 229 |
| Operating and storage temperature range (°F / °C) | (-13 to 140 / -25 to 60) | (-13 to 140 / -25 to 60) |
| Noise emissions | < 45 db | < 45 db |
| Humidity (%) | 0 to 95 (non condensing) | 0 to 95 (non condensing) |
| Cooling | Forced convection with variable speed fan | Forced convection with variable speed fan |
| Altitude | 2000 m | 2000 m |
| Communications and user interface | | |
| User interface | Interactive LCD screen with 3 LED status indicators | Interactive LCD screen with 3 LED status indicators |
| Connectivity | RS485, S0 output | RS485, S0 output |
| Safety features / Regulatory compliance | | |
| UL / IEEE / CSA / FCC | UL 1741 2nd Ed 2010 / IEEE 1547 / FCC Class B | UL 1741 2nd Ed 2010 / IEEE 1547 / FCC Class B |
| Fault signal relay | Potential free normally open contact | Potential free normally open contact |
| Polarity safeguard | Short circuit diode | Short circuit diode |
| Ground fault detection and interruption (GFDI) | Residual GFDI compliant with NEC 690.35 for use with ungrounded PV system arrays | Residual GFDI compliant with NEC 690.35 for use with ungrounded PV system arrays |