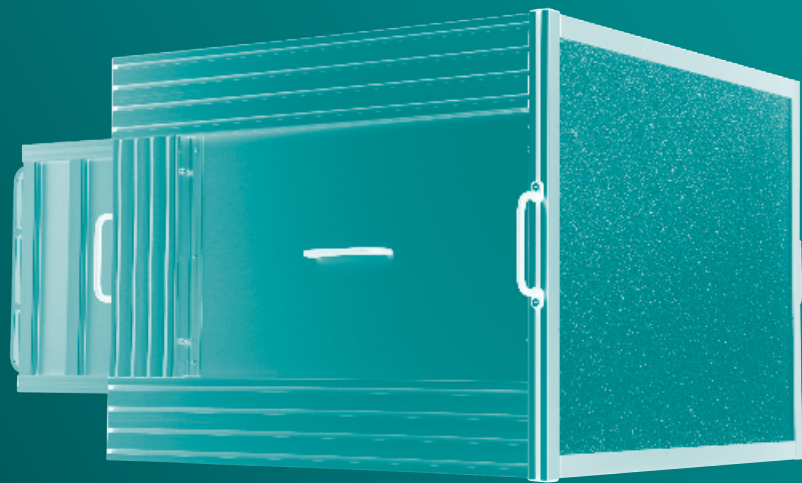
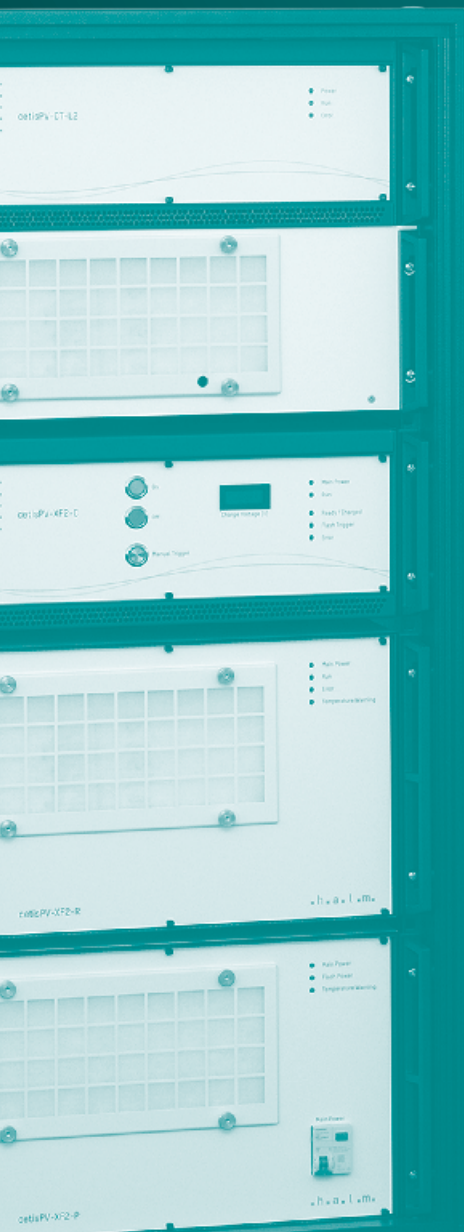


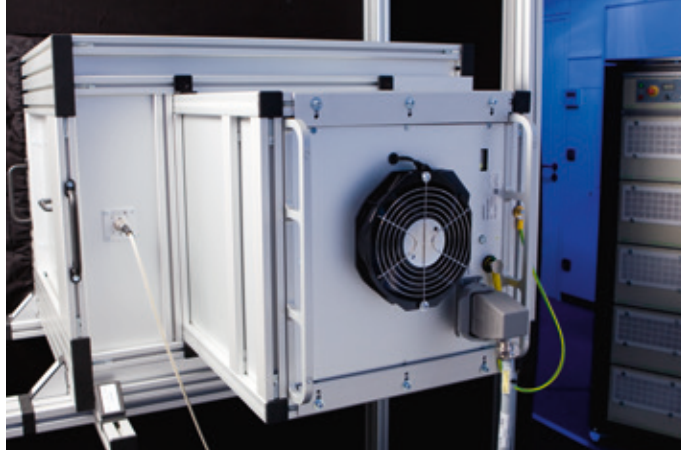


cetisPV- IUCT-M

Class A+A+A+ system for
IV measurement of solar modules
in production lines



cetisPV product line



cetisPV- IUCT-M

Class A+A+A+ system for
IV measurement of solar modules
in production lines

The **cetisPV-IUCT-M** is a complete class A+A+A+ high-precision inline test system for the IV measurement of solar modules.

Sustainable – Its unique programmable pulsed solar simulator provides a highly stable intensity over long flash times from a single light source. Combined with the h.a.l.m. IV curve tracer and the h.a.l.m. advanced hysteresis feature to measure high-capacitance modules, this system is designed to match the demands of current and up-coming solar cell and module technologies.

Reliable – The **cetisPV-IUCT-M** has proven its reliability in many production lines around the world. With a single flash tube, very few easy-to-change wear parts and thanks to the modular principle, maintenance time and total cost of ownership are extremely low.

Flexible – The **cetisPV-IUCT-M** can be extended with high-voltage testing and electroluminescence imaging, all smoothly integrated in the highly versatile **PVControl** software. The software is uniquely suited for data analysis and process control at a glance including interfaces for most common MES solutions.

Technical specifications

| | |
|--|--|
| Cycle Time | 20 s |
| Flash duration | up to 70 ms |
| Flash profiles | single, double, triple level, ramp |
| Repeatability (standard deviation) | Isc and Voc < ±0.1% / Pmpp and FF < ±0.15% |
| Measurement resolution | < 0.004% FSR (3 synchronous 16-bit channels for voltage, current and irradiance) |
| Measurement accuracy | < 0.05% FSR for current and voltage measurements |
| Voltage measurement ranges | -16 to +12.5/+25/+50/+125/+250V ±4/ ±8/ ±20/ ±32/ ±56/ ±80/ ±140/ ±180V (with optional cetisPV-EL3-M) |
| Current measurement ranges | +20/+10/+4/+2/+1/+0.5/+0.2/+0.1A ±20/ ±10/ ±4/ ±2A/ ±160/ ±80/ ±32/ ±16mA (with optional cetisPV-EL3-M) |
| Standard illumination area | up to 2,100 mm x 1,400 mm |
| Spectral match* | 0.9 – 1.1 (class A 0.75 – 1.25) |
| Non-uniformity of irradiance* | < 1% (class A ≤ 2%) |
| Short-term instability of irradiance* | < 0.05% (class A ≤ 0.5%) |
| Long-term instability of irradiance* | < 0.5% (class A ≤ 2%) |
| Lamp lifetime (guaranteed / typical) | 100,000/300,000 flashes |

*IEC 60904-9 Ed. 2 Technical data are subject to change without notice.