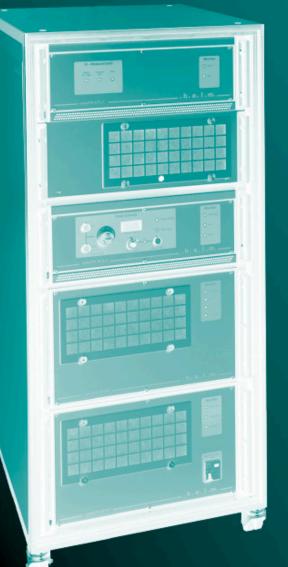


cetisPV-IUCT-M

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





cetisPV product line



cetisPV-IUCT-M

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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.

Cycle Time	20 s
Flash duration	up to 70 ms
Flash profiles	single, double, triple level, ramp
Repeatability (standard deviation)	lsc and Voc < $\pm 0.1\%$ / Pmpp and FF < $\pm 0.15\%$
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/+250 V ±4/ ±8/ ±20/ ±32/ ±56/ ±80/ ±140/ ±180 V (with optional cetisPV-EL3-M)
Current measurement ranges	$+20/+10/+4/+2/+1/+0.5/+0.2/+0.1$ A $\pm 20/\pm 10/\pm 4/\pm 2A/\pm 160/\pm 80/\pm 32/\pm 16$ (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 (quaranteed / typical)	100,000/300,000 flashes