

# Alfartec

PV Module Tester



**BlueSky MT240**

**Very long pulse**

**Perfect spectrum**

**Low operation costs**

## KEY BENEFITS

✓ **Innovative high performance**  
Solar simulator based on LED's and Halogen technologies

✓ **Class A+A+A+** according to IEC 60904-9 standards, thanks to the innovative technologies developed in-house

✓ **Variable illumination duration**  
Illumination duration from 100 ms to continuous

✓ Also suitable for **degradation test and light soaking**

✓ **Adjustable** irradiance intensity and light spectrum

✓ Suitable for complete and accurate characterization of **every type of photovoltaic solar cells**

✓ **Larger spectral range** compared to "LEDS only" module testers

✓ **Long-lifetime of components**, included lamps (up to 50 million flashes), thus low cost of ownership



## TECHNICAL SPECIFICATIONS

---

**Each feature is configurable; it is the mission of our engineering team to realize the perfect product for you!**

<b>Light sources :</b>	LEDs and Halogen (LEDs only optional)	<b>Air mass :</b>	AM 1.5 (Options: AM0, 1, 2, 2.5)
<b>Lamp Lifetime :</b>	> 15'000 h	<b>Electronic load :</b>	± 2 / 20 / 100 V 0.2 / 2 / 20 A (other values on request)
<b>Spectral range :</b>	350 nm to 1200 nm (Customized spectrum upon request)	<b>Electrical accuracy :</b>	< 0.2 % (each channel)
<b>Illumination intensity :</b>	0.1 to 1.2 kW/m <sup>2</sup> (> 1.2 kW/m <sup>2</sup> upon request)	<b>Weight :</b>	approx. 500 Kg
<b>Spectral match (STC) :</b>	A+	<b>Dimensions (l x L x h) :</b>	approx. 2.0 x 3.0 x 1.0 m (horizontal design)
<b>Non-Uniformity :</b>	A+		
<b>STI &amp; LTI :</b>	A+		
<b>Flash duration :</b>	100 ms to continuous	<b>Orientation :</b>	Horizontal face up in standard Horizontal face down or Vertical in option.
<b>Stabilization time :</b>	LEDs/Halogen: 1 s LEDs only: 100 ms	<b>Uniformity</b>	
<b>Illuminated area :</b>	1.2 x 2.0 m (Larger size optional)	<b>Measurement System :</b>	optional

---

**CONTACT US :**  
+41 (0)32 968 14 75  
[www.alfartec.com](http://www.alfartec.com)  
[Info@alfartec.com](mailto:Info@alfartec.com)

Alfartec Sàrl  
Numa-Droz 158  
2300 La Chaux-de-Fonds  
Switzerland