

Glass Indoor Solar Cell (1-cell) – 41x26mm



PID: MIKROE-6590

Glass Indoor Solar Cell (1-cell) - 41x26mm (AMG-1401C), commonly known as Amorphous Silicon Solar Cell (Amorton), is a hydrogenated amorphous silicon (a-Si:H) solar cell designed for energy harvesting in indoor environments. The high-performance AMG-1401C solar cell is built on a glass substrate for optimal efficiency and durability. With a nearly perfect black-reflective surface, it achieves over 20% higher efficiency than conventional models, generating approximately $8\mu\text{W}/\text{cm}^2$ at 200 lux while maintaining a slim 1.1mm thickness. Its compact dimensions (41.4x26.1mm) allow for space optimization, and its 2.2V output ensures compatibility with various power management ICs. Ideal for low-light and artificial light environments, it provides sustainable and reliable power for IoT sensors, watches, asset trackers, sensor nodes, and remote controls.

Downloads

[AMG-1401C datasheet](#)

Mikroe produces entire development toolchains for all major microcontroller architectures.

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ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).