

Southeast Asian Silicon-based High-Efficiency Technology



Overview

As Southeast Asia positions itself as the next global semiconductor hub, the region must address a complex web of challenges—from the quantum limits of miniaturization to energy-intensive operations, fragile material supply chains, and rising sustainability demands. LONGi has managed to expand the power output of its 2024-launch Hi-MO 9 solar modules by 10 W to 670 W now. (Photo Credit: LONGi) LONGi Green Energy Technology has announced an 'unprecedented world record' with 27. This feature explores how. Up to 607W cell module made from the high efficiency HJT cells. 3 out of 5 highest efficiency solar modules come from back-contacted cells! 3 advantages help to increase efficiency and cut cost! Certificated efficiency up to 27. Optimization of the window layers 2. The semiconductor team of RENA Technologies participated in SEMICON Southeast Asia 2026 in Kuala Lumpur, Malaysia, and used the opportunity for personal exchange with visitors and industry experts. The exhibition took place from May 5 to 7, 2026, at the Malaysia International Trade and Exhibition. KUALA LUMPUR, Malaysia, May 5, 2026 /PRNewswire/ -- Delta Electronics, a global leader in power management and smart green solutions, attends SEMICON Southeast Asia 2026 to present its cutting-edge smart manufacturing solutions with AI playing a central role in enabling smarter, more connected. Southeast Asia's strategic rise in the global semiconductor industry is rooted in its ability to provide cost-efficient and high-quality back-end operations.

Article Content

27%-efficiency silicon heterojunction cell with 98.6% cell-to-module ...

Here, the authors fabricate devices using rear-side polishing and progressive RF/VHF PECVD film deposition schemes for doping layers, realizing a certified cell efficiency of 27.0%.

LONGi Records Highest Cell Efficiency For HIBC Technology

LONGi Green Energy Technology has announced an "unprecedented world record" with 27.81% efficiency for its proprietary Heterojunction Interdigitated Back Contact (HIBC) silicon solar cell.

GaN vs Silicon Charger Technology: What Southeast Asian Exporters ...

For Southeast Asian exporters and B2B buyers navigating the Alibaba marketplace, understanding the differences between GaN and traditional silicon chargers is no longer optional—it's essential for ...

Charting Southeast Asia's Next-Gen Semiconductor Revolution | IAA

Southeast Asia is emerging as a next-gen semiconductor hub. Explore how countries like Singapore and Malaysia are using AI, green tech and smart automation.

Southeast Asia's Semiconductor Role in Global Supply Innovation

The demand for semiconductors, driven by emerging technologies like artificial intelligence (AI), the Internet of Things (IoT), and 5G networks, highlights the indispensable role of Southeast Asia.

High-Efficiency Silicon Heterojunction Solar Cells: Materials, Devices ...

His current research interests include high efficiency silicon solar cells with advanced passivating contact technologies, perovskite/silicon tandem solar cells, and novel solar cell materials ...

High Efficiency Silicon Heterojunction Technology

3 advantages help to increase efficiency and cut cost! Certificated efficiency up to 27.09% achieved ! 4. Optimization of the window layers. 2. Optimization. 3. Interface passivation at ETL and HTL. 4. ...

Charting Southeast Asia's Next-Gen Semiconductor ...

Southeast Asia is emerging as a next-gen semiconductor hub. Explore how countries like Singapore and Malaysia are using AI, green tech and smart automation.

Delta Electronics Spotlights AI and Integrated Solutions to Advance ...

At SEMICON Southeast Asia 2026, Delta is demonstrating how a seamlessly integrated, connected, AI-enabled systems approach can help semiconductor manufacturers move beyond ...

Penang, the Silicon Valley of the East, and Thailand - The Future of ...

By looking at the changes in venue, we can see the history of development of the semiconductor industry in Southeast Asia, and the importance of Penang in particular.

SEMICON Southeast Asia 2026 in Kuala Lumpur - Innovations for the ...

The semiconductor team of RENA Technologies participated in SEMICON Southeast Asia 2026 in Kuala Lumpur, Malaysia, and used the opportunity for personal exchange with visitors and ...

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