



# Longi Solar Photovoltaic Power Generation Installation

What is the application level of LONGi Solar module?

The application level of LONGi Solar module is Class II, which can be used in systems operating at  $> 50$  V DC or  $> 240$  W, where general contact access is anticipated; When the modules are for rooftop application, it is necessary to take the overall fire rating of the finished structure as well as operation and maintenance into account.

Why should you choose LONGi Solar modules?

Our solar modules help accelerate the clean energy transition, making the world healthier and more sustainable. LONGi's technological and manufacturing leadership in solar wafers, cells and modules underscores our commitment to helping accelerate the clean energy transition.

Where should Longi modules be installed?

LONGi modules shall be installed on proper buildings or other appropriate places (such as ground, garage, building outer wall, roof, PV tracking system) but shall not be installed on any vehicles. Do not install modules at places that are possible to be flooded.

Can Longi modify a product manual or installation manual?

LONGi reserves the rights for modifying product manual or installation manual without noticing in advance. It is recommended to visit our website regularly at [www.longi.com](#) for the latest version of this installation manual.

How to calculate VOC in a Longi module?

(LONGi modules maximum system voltage is DC1000V/DC1500V---actually system voltage is designed based on the selected module and inverter model.) The correction value of VOC can be calculated by the following formula.  $C_{Voc} = 1 - \frac{V_{oc} \cdot (25 - T)}{T}$ : The expected lowest temperature of the installation site.

Do Longi modules corrode?

LONGi modules passed the IEC61701 salt spray corrosion test, but the corrosion may still occur on where the modules frame is connected to the bracket or where the grounding is connected. In case LONGi modules are installed  $\geq 50$ m away from the ocean side, and related parts and components should be protected with anti-corrosion measures.

Longi's all black Hi-MO 6 425W improves power generation capacity providing a great power to size ratio and excellent performance - achieving 21.8% efficiency. ... Longi Solar is one of the largest silicon producers in the world and a specialist in mono-crystalline cell and panel manufacturing. ... 425W.  $V_{mpp}$ . 32.96V.  $V_{oc}$ . 39.23V.  $I_{mpp}$ . 12 ...

This new generation of solar panels redefines the aesthetic concept of photovoltaic modules while offering



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remarkable performance, reliability, and intelligent optimization functions. With its HPBC high-efficiency cells, Hi-MO 6 modules achieve a conversion efficiency that exceeds 25.0% and provide an enhanced photoelectric conversion capacity through comprehensive optimization.

The construction of LONGi's agriculture-solar complementary power station gives full consideration to local solar resources and land resources of the project site. While ensuring crop production, the power generation capacity of the PV system is improved. At the same time, it has the ability of supporting construction and introducing upstream ...

LONGi has supplied 50 MW of its high-efficiency mono-crystalline solar modules to the 150MW "Wind-Solar complementary" project, a combination of 100 MW wind and 50MW solar plant in Xiaohaotu Town, Yulin City (Shaanxi Province). With investment by the Shaanxi Energy Group, the project is jointly constructed by the China Energy Engineering Group's ...

Landscape Installation: 54/60 type PV module cable length  $\geq 1.2\text{m}$ , 72 type PV module cable length  $\geq 1.4\text{m}$ , 78 type PV module cable length  $\geq 1.5\text{m}$ . Portrait installation: The adjacent modules in the same row need to be rotated 180 degrees for Leap-frog installation. 54/60 type PV module cable length  $\geq 1.2\text{m}$ . 72 type PV module cable length  $\geq 1.4\text{m}$ .

Commercial Industry. Industry Solutions. We have launched the next-generation green power solution, combining solar PV + hydrogen production--a decarbonization solution for high energy-consuming industries and a climate-conscious alternative for the petrochemical industry.

LONGi introduced its next-generation back contact modules earlier in October, using its proprietary HPBC 2.0 cell technology, with a mass production output of 670W. ... LONGi declared that it has broken the 36-year monopoly of overseas PV brands. LONGi's UK & Ireland General Manager Ross Kent stated that the evolved Hi-MO X10's technology ...

LONGi's agri-voltaic power plant solutions pay close attention to the local solar resource as well as the land resources of the project site. While ensuring crop production, the power generation capacity of the PV system is improved. At the same time, it supports construction and introduces upstream and downstream industries, to promote the employment of local farmers and help ...

Widex Solar is an early-stage solar energy company in Hong Kong with mature technology and a professional technical team. Mi Zhizhong, general manager of Widex Solar, said, "As a trustworthy partner, LONGi's ...

Excellent metal roofing enclosure system integrated with PV power generation Learn More. Shaanxi Tomsun Electric BIPV Power Station Project. Xi'an, Shaanxi China. 2,349 Tons. ... What is the connection method between the roof panel ...



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Efficient Delivery. Deepen the excavation of product integration potential, and comprehensively compare the potentials with solutions through simulation tools, continuously amplify product advantages, and constantly enhance the efficiency of power stations, &quot;make full use of&quot; every kilowatt-hour of electricity.

As pioneers in setting world records for photovoltaic cell efficiency, LONGi continued innovation and outstanding performance have not only contributed significantly to global solar power generation and green energy technology development but also demonstrated its determination and leadership in the photovoltaic industry.

Excellent metal roofing enclosure system integrated with PV power generation Learn More. Shenmu Shaanxi coal group BIPV Power Station Project. Shenmu,Shaanxi China. ?3570 Tons. ... What is the connection method between the roof panel and PV power generation layer of the LONGi ROOF BIPV system? How to ensure its bonding quality and durability?

As one of the fastest-growing renewable energy sources in mitigation of climate change, solar PV is playing a major role in the future global electricity generation mix. Solutions Utility-Scale Solar Power Plants

Ross Kent, General Manager for LONGi Solar (DG) UK & Ireland, commented: &quot;There is a huge untapped potential for renewable energy in the UK, particularly solar energy. This partnership will help to further close this gap, accelerate the transition and bring cutting-edge solar technology innovations such as LONGi's high-efficiency back-contact technology to solar ...

Hi-MO X10 takes over the core technology of HPBC 2.0 cells, leading in power generation performance, reliability, and customer benefits, which can better meet the needs of distributed customers for products.The Hi-MO X10 includes four series--Explorer, Scientist, Guardian, and Artist,making it the first choice for value of distributed PV .

PV power plants can be combined with agriculture, forestry, animal husbandry and fishery to achieve onsite power generation with planting, animal husbandry and fish farming. PV power generation integrated with agriculture, forestry, animal husbandry and fishery can be deployed in a variety of land use. PV power generation can not only help rural electrification at the ...

According to the European Solar Test Installation (ESTI), LONGi has achieved conversion efficiency of 33.5% for silicon-perovskite tandem solar cells, an increase of 1.7% from the previous 31.8% published on the 16th ...

The China Photovoltaic Testing Centre (CPVT) has conducted outdoor empirical testing of LONGi's Hi-MO X6 "Guardian" (Anti-Dust Design) modules at its outdoor testing base in Yinchuan.

According to different installation scenarios, they are divided into large-scale flat PV power stations, general



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mountain PV power stations, complex mountain PV power stations and large-scale water surface PV power stations.

We can provide optimal system configuration for multiple use cases by balancing between PV power generation and energy storage. Green Power and Carbon Emission Reduction In addition to being a green power generation asset, solar-plus-storage systems can ...

LONGi sets new world record with 27.30% for heterojunction back contact cells and renames next generation silicon tera wafer to TaiRay Wafer . With 27.30%, LONGi sets a new world record for silicon heterojunction back-contact (HBC) solar cells, beating its own record from December 2023.

The congress featured 25 AQM Award groups in three categories: PV Modules, Solar Energy Storage Systems, and PV Power Plants. Shanghai, China, September 3rd - The 10th All Quality Matters (AQM) Solar & ESS Congress, organized by the T&V Rheinland Group, took place in Shanghai on September 3, 2024.

Mie, Japan, November 3 rd, 2023 - LONGi has announced that its latest Hi-MO X6 modules, designed specifically for the DG market, have been installed and utilized in the Japanese market for the first time. The installation took place at the premises of recycling company Sanko, in Tsu City, Mie, Japan, a total of 260 panels, with a combined capacity of 109.2kW, deployed on the ...

"PV Module Outdoor Power Generation" Winner LONGi is recognized as a 2022 Top Performer, gaining the High Achiever status in RETC (Renewable Energy Test Center)'s PV Module Index Report for the fourth consecutive year. Renewable Energy Test Center (RETC) is a leading engineering service and certification

Explore the new Hi-MO X6 Artist Ultra Black solar panel by LONGi, featuring a 360-degree pure black appearance, high-efficiency HPBC technology, and bifacial design. Experience enhanced durability, superior power generation, ...



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Web: <https://profbismed.pl>