



One-stop Solar Power Solutions Supplier



新华联新能源
MACROLINK NEW ENERGY



山东新华联新能源科技有限公司
MACROLINK NEW ENERGY

让价值创造者分享价值 让事业成功者分享成功

创新求超越
实干谋发展

Researching Developing Manufacturing Marketing

Lighting the World, Making the Future

Founded by experienced solar photovoltaic specialists under the investment from MACROLINK GROUP, with the vision of future, the mission of developing green energy, and focusing on the solar pv power application one-stop solutions, Shandong Macrolink Intelligent Photovoltaic Co., Ltd. has always been devoted into clean energy's development and products R&D to optimize the pv system configurations and to increase the solar panels' efficiency.



Company Info

Name	Shandong Macrolink Intelligent Photovoltaic Co., Ltd.
Add.	Lushan Rd, Liaocheng, Shandong, China.
Established	Feb. 2015
Registered Capital	USD \$ 60 millions
Employee	500
Factory floor area	256,000 square meters (63.3 acre)

Main Products	Crystalline silicon solar panels; Thin film BIPV modules; Complete home-using pv system
Strategic Partner	TUV SUD, Hanergy
Factory's Capacity	100MW crystalline silicon solar panels; 600MW thin film BIPV modules;
Rank in China	Top 50 private enterprises
Certifications	CE, ISO 9001, TUV, CQC, CCC
Numer of Patents	Four



ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ СЕРТИФИКАТ ♦ CERTIFICADO ♦ CERTIFICAT



CERTIFICATE

The Certification Body
of TÜV SÜD Asia Pacific TÜV SÜD Group

certifies that

Shandong Macrolink New Energy Technology Co., Ltd.
Lushan Road, Economic and Technological Development Zone
Liaocheng City, Shandong Province
Post Code: 252000

Organization code: 328514574

has established and applies
a Quality Management System for

Manufacturing and Sales of Solar Film Components

An audit was performed, Report No. 20043732

Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled. The certificate is valid until **2018-09-14**

Certificate Registration No. **TUV100 08 3418**

2016-03-04

Information about this certificate can be inquired at the official website of Certification and
Accreditation Administration of the People's Republic of China (www.cnca.gov.cn)

(Signature)
Certification Body
of TÜV SÜD Asia Pacific
TÜV SÜD Group



Accreditation by the Joint Accreditation System
of Australia and New Zealand (JAS-ANZ)
www.jas-anz.com.au/0203000000

ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ СЕРТИФИКАТ ♦ CERTIFICADO ♦ CERTIFICAT

Attestation of Conformity

No. N8 16 02 93603 001

Holder of Certificate: **Shandong Macrolink New Energy Technology Co., Ltd.**

Lushan Road, Economic Development Zone
252000 Liaocheng City, Shandong Province
PEOPLE'S REPUBLIC OF CHINA

Product: **Thin-Film Terrestrial Photovoltaic (PV) Modules**

Model(s): **MNE-BT055NN1, MNE-BT058NN1
MNE-BT060NN1, MNE-BT062NN1
MNE-BT063NN1, MNE-BT065NN1
MNE-BT066NN1, MNE-BT069NN1**

Parameters:

Rated Output Power at STC:	55W(MNE-BT055NN1) 58W(MNE-BT058NN1) 60W(MNE-BT060NN1) 62W(MNE-BT062NN1) 63W(MNE-BT063NN1) 65W(MNE-BT065NN1) 66W(MNE-BT066NN1) 69W(MNE-BT069NN1)
Application Class:	A
Max. System Voltage:	1000V DC
Test Laboratory:	Metrology and Testing Center of China Electronics Technology Group Corporation No. 18th Research Institute (NO. 8 Huake seven RD Hailai street Xiqing District Tianjin 300304, China)

Construction: **Frameless, with Junction box cable and connector.**

Tested according to:

EN 61730-1:2007/A1:2012
EN 61730-2:2007/A1:2012

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2006/95/EC relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive. It refers only to the particular sample submitted for testing and certification. See also notes overleaf.

Test report no.: 882161509601

(Signature)
(Xinlian Luo)



Date, 2016-03-07

CE After preparation of the necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

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Product Service

ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ СЕРТИФИКАТ ♦ CERTIFICADO ♦ CERTIFICAT

CERTIFICATE

No. Z2 16 02 93603 002

Holder of Certificate: **Shandong Macrolink New Energy Technology Co., Ltd.**

Lushan Road, Economic Development Zone
252000 Liaocheng City, Shandong Province
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: **Thin-Film Terrestrial Photovoltaic (PV) Modules**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 882161509601

Valid until: 2021-02-23

(Signature)
(Xinlian Luo)





Date, 2016-03-07

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Product Service

证书号 第 5225112 号



实用新型专利证书

实用新型名称: 光伏发电组件

发 明 人: 郝庆仁; 戚远东

专 利 号: ZL 2015 2 1052972.1

专利申请日: 2015 年 12 月 16 日


专 利 权 人: 山东新华联新能源科技有限公司

授权公告日: 2016 年 05 月 25 日


本实用新型经过本局依照中华人民共和国专利法进行初步审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

本专利的专利权期限为十年, 自申请日起算。专利权人应当依照专利法及实施细则规定缴纳年费。本专利的年费应当在每年 12 月 16 日前缴纳。未按照规定缴纳年费的, 专利权应当自应当缴纳年费期满之日起终止。

专利证书记载专利权登记时的法律状况。专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。





局长 申长雨



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证书号 第 5180845 号



实用新型专利证书

实用新型名称: 光伏瓦

发 明 人: 刘基松; 戚远东; 张群芳

专 利 号: ZL 2015 2 1047925.8

专利申请日: 2015 年 12 月 15 日


专 利 权 人: 山东新华联新能源科技有限公司

授权公告日: 2016 年 05 月 04 日


本实用新型经过本局依照中华人民共和国专利法进行初步审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长 申长雨



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证书号 第 5180080 号



实用新型专利证书

实用新型名称: 物料输送装置

发 明 人: 李洪彬; 戚远东

专 利 号: ZL 2015 2 1004342.7

专利申请日: 2015 年 12 月 03 日


专 利 权 人: 山东新华联新能源科技有限公司

授权公告日: 2016 年 05 月 04 日


本实用新型经过本局依照中华人民共和国专利法进行初步审查, 决定授予专利权, 颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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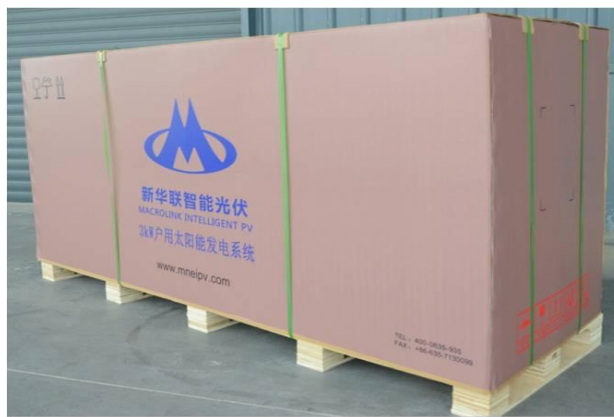
局长 申长雨



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Products

crystalline silicon solar panels / a-Si thin film BIPV modules / home-using pv system / solar lamp / solar carport



Applications

Solar panels and BIPV modules

Home-using: rooftop, sunroof

Industrial: factory, school, hospital, bank

Agricultural: green house, solar farm

Public facilities : solar lamp, solar carport

BIPV: Building integrated photovoltaic

*(a-Si thin film solar modules with different
transparency and colors)*



Cases in 2016

*Installed capacity for distributed solar pvpp in China in 2016: **21.32 MW***

Home-using grid-connected pv system using BIPV modules in Liaocheng , 2,133kw



Commercial grid-connected pv system using poly solar panels on aquarium roof in Anhui , 377.52 kw



Cases in 2016

Ground-based grid-connected pv system using poly solar panels in Hunan, 60 kw



Competitive advantages



Professional photovoltaic specialists and construction engineers with 10 years R&D experiences



Advanced factory with 100MW crystalline silicon solar panels and 600MW BIPV solar modules producing capacity per year as the biggest BIPV solar glass curtain wall producing station in Asia



Strategic partnership with prestigious end- customers as Hanergy and MACROLINK real estate developers



24hrs and one-to-one after-sales services and strong financial support from MACROLINK GROUP with eight listed enterprises

The highest goal of an enterprise is to benefit the society.

Established in Oct.1990, the Macrolink Group started from international business and has developed for 26 years covering real estate, clean energy, petroleum, chemical engineering, finance and investment. In 2015, its total assets exceed usd \$10 billion. Now as the TOP 50 private enterprises in China with over 80 subsidiaries, the Macrolink holds 8 listed companies, 13 famous brands, more than 3,000 patents and over 50,000 employees in more than 20 countries.





新华联智能光伏

MACROLINK INTELLIGENT PV

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