



HENGTONG

Introduction Of Solar Cable

Global Information and Energy Network Service Provider

Version: 20190322

CONTENT

01

**Introduction of
Solar cables**

02

Capability of Hengtong

03

Project Reference



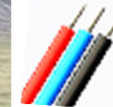
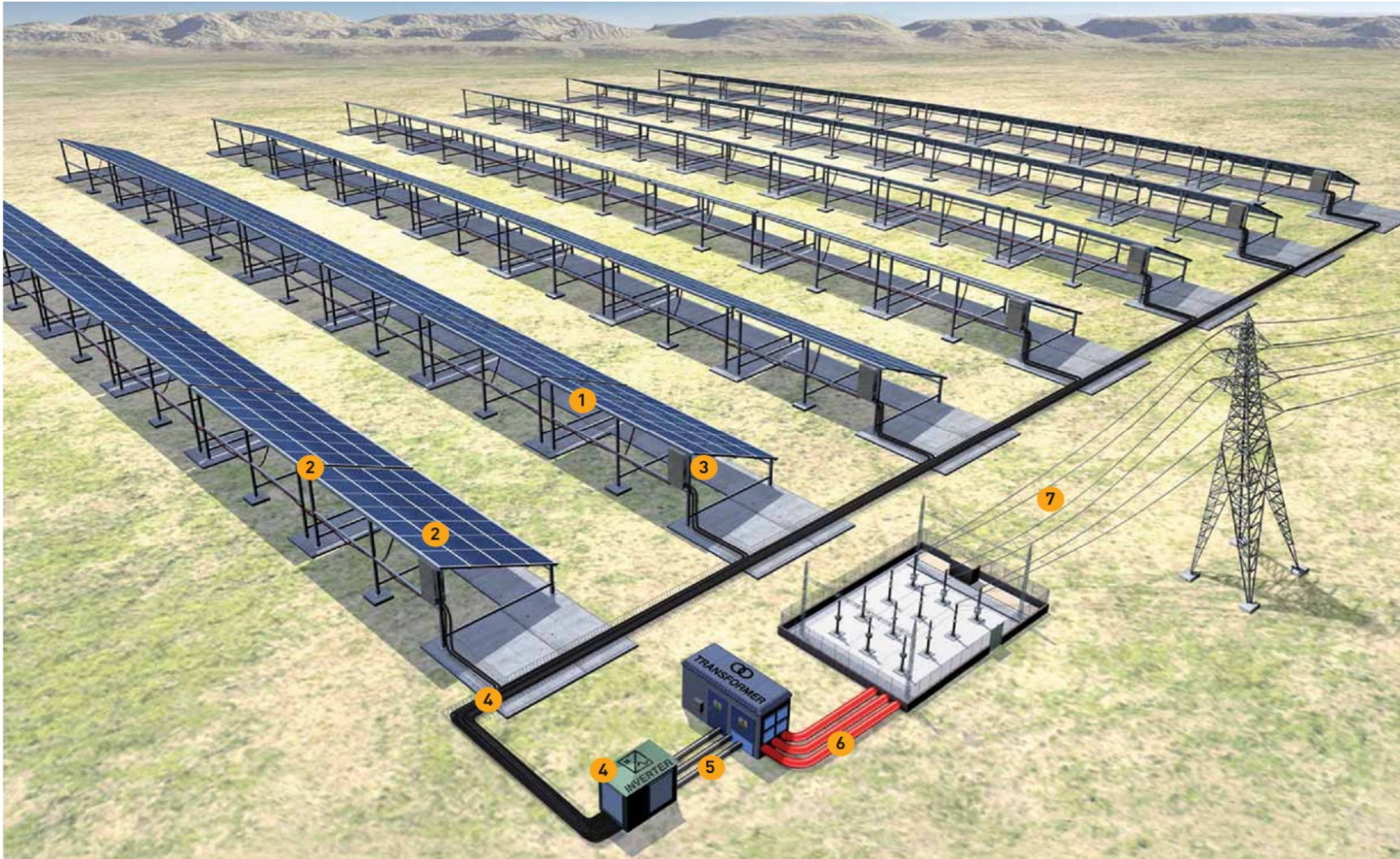
01

Introduction of Solar cables Solution

Land Solar Power Station



创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION



Solar cable



LV DC power cable



Land MV power cable



LV AC power cable



RS485



Optic fiber cable

Off-shore Solar Power Station



创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION



Solar cable



LV DC power cable



Off-shore MV power cable



LV AC power cable



RS485



Optical fiber cable



Voltage	$U_0/U = 600/1000$ VAC 1800 VDC
Operation Temperature	Operation temperature: -40 °C up to $+125$ °C Ambient temperature: -40 °C up to $+90$ °C Design life: > 25 years (TÜV) -40 °C up to $+90$ °C Short circuit temperature: 280 °C
Special Performance	UV resistant O3 resistant Cold resistant Salty spray resistant LSOH, Flame retardant, Environment friendly

Solar cable certificate



TUV solar cable

Certificate

Certificate No. **T 5077142-01**

Client Name: Jiangsu Henglong Power Cable Co., Ltd. Qidu Town Wujiang, Jiangsu 215234 P. R. China	Manufacturing Plant: Jiangsu Henglong Power Cable Co., Ltd. Qidu Town Wujiang, Jiangsu 215234 P. R. China
--	--

Report No.: IX 15344012-101 **Client Reference:** J.L.L.
Issue Date: 2 DEC 11/03/2017

Product Description: **Critical Power Cables for Photovoltaic Systems** **Issue No. / Date:** 12

Type Designation: PV1-F 1X3.5...35mm²

Rated Voltage: 20 kV AC
 20 kV/0.8/1kV

Ambient Temperature: -40°C to +100°C
Max. Temperature at Conductor: 120°C

Name of Origin: Jiangsu Henglong Power Cable Co., Ltd.
 Remark: This certificate is not valid for EC since 27.10.17.

Appendix: 1.0

Issued For: TUV Rheinland (China) Ltd.
Signature: *[Signature]*
Date of Issue (Signature): 27/03/2017

TUV Product Group Ltd. - 300 707, JWC Building, 1613F, General Road, East Tai Fung Park, Cheung Kong, Kowloon, China
Tel: +86 75 5267 8000 Fax: +86 75 5267 8007

UL4703 solar cable

CERTIFICATE OF COMPLIANCE

Certificate Number: 2018.110-E497084
Report Reference: E497084-20180110
Issue Date: 2018-JANUARY-10

Issued to: Jiangsu Henglong Power Cable Co. Ltd.
 Xintanwan Gao Town Wujiang District
 Suzhou
 Jiangsu 215210 CHINA

This is to certify that representative samples of: PHOTOVOLTAIC WIRE
 Photovoltaic Wire, Type PV

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate:

Standard(s) for Safety: UL 4703 - Photovoltaic Wire
 UL 44 - Thermoplastic Wires and Cables

Additional information: See the UL Online Certifications Directory at www.ul.com/directory for additional information.

Only those products bearing the UL Certification Mark should be considered as being covered by this Certification and should be used in accordance with the UL Listing and Labeling Requirements.

Look for the UL Certification Mark on the product.

Page 2 of 2

EN 50618 solar cable

Zertifikat

Zertifikat Nr. / Certificate No.: 15344012-101
Issue Date: 30.11.2017

Client Name: Jiangsu Henglong Power Cable Co., Ltd.
 Qidu Town
 Wujiang, Jiangsu 215234
 P. R. China

Manufacturing Plant: Jiangsu Henglong Power Cable Co., Ltd.
 Qidu Town
 Wujiang, Jiangsu 215234
 P. R. China

Product Description: **Critical Power Cables for Photovoltaic Systems** **Issue No. / Date:** 12

Type Designation: PV1-F 1X3.5...35mm²

Rated Voltage: 20 kV AC
 20 kV/0.8/1kV

Ambient Temperature: -40°C to +100°C
Max. Temperature at Conductor: 120°C

Appendix: 1.0

Page 2 of 2

MV Power Cables



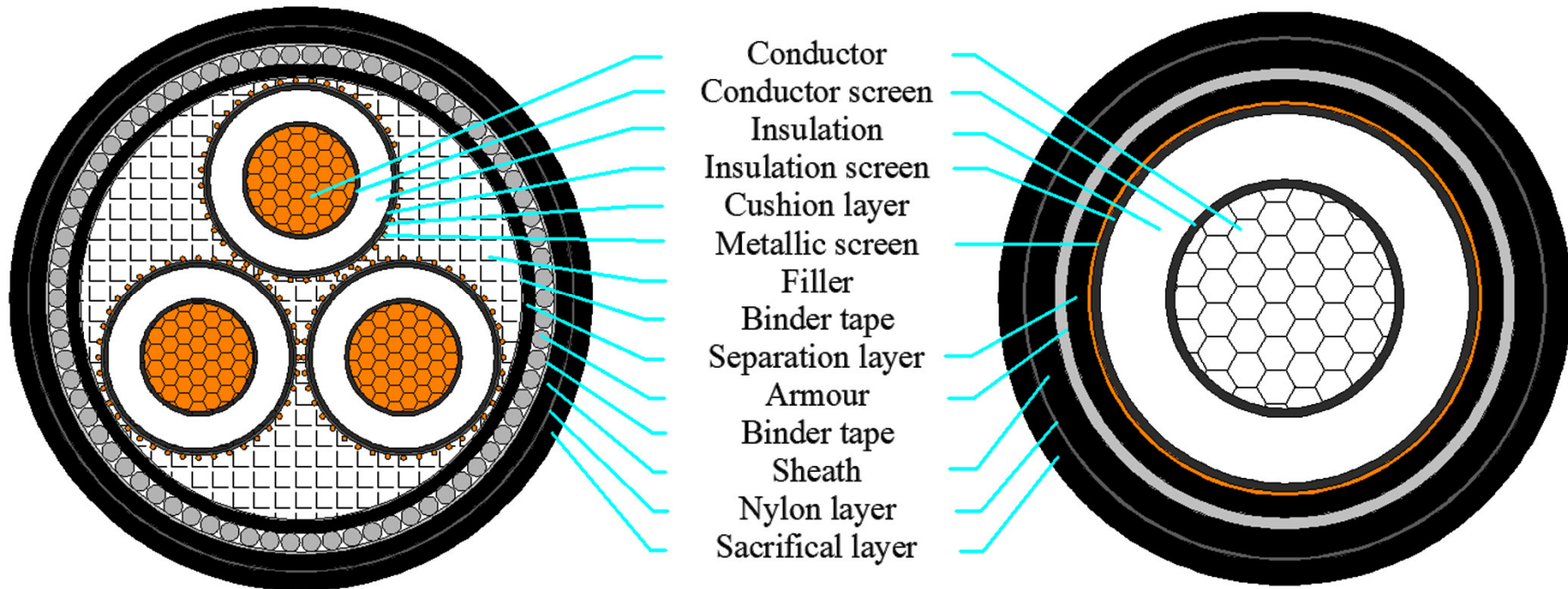
创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION

Voltage : 6~35kV

Conductor : $\leq 800\text{mm}^2$ Cu , AL, AAAC

Standard : IEC,AS/NZS,BS,SANS,NBR,ICEA, UL

LSHF, Flame retardant, Cold resistance, Water blocking, UV resistance, Oil resistance, Anti-termite, Anti-rodent etc. are also available



LV AC & DC Power Cables



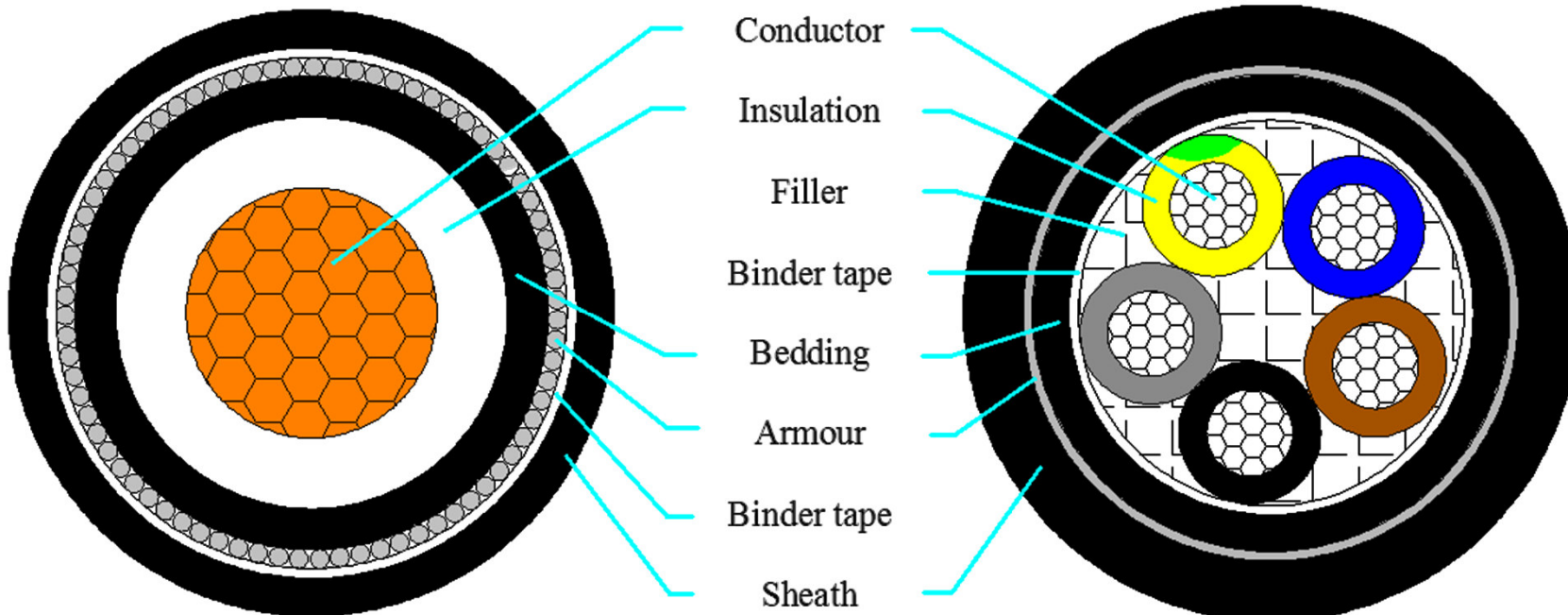
创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION

Voltage : 0.6/1kV

Conductor : $\leq 1000\text{mm}^2$ Cu , AL, AAAC

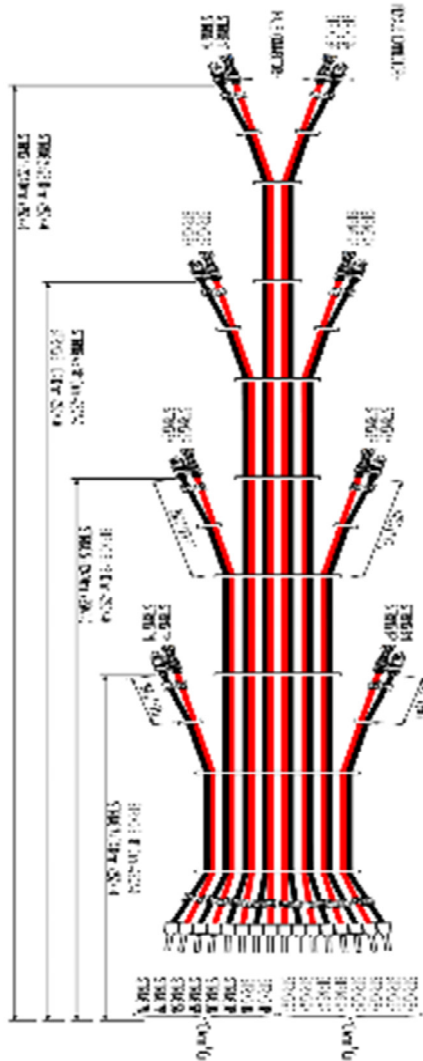
Standard : IEC,AS/NZS,BS, EN, SANS,NBR

LSHF, Flame retardant, Fire resistance, Cold resistance, UV resistance, Oil resistance, Anti-termite, Anti-rodent etc. is also available



We supply Whole series cable and cable with harness and terminals for solar system





➤ Lower cost

Save labor cost of installation, we made the harness with equipment faster and cheaper. The works on site need not cut-strip-connect MC4.

➤ Fast installation

Solar cable with harness, just do plug in connection on site. Earlier connected to the power grid.

➤ Better quality

We use professional equipment to make the joint and harness, it' s more reliable than human make the joint on site.



02

Capability of Hengtong

Production capacity



创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION

Rated Voltage	No. of Cores	Cross-section of Conductor	Production capacity
PV1-F H1Z2Z2-K XHHW	1C	1.5 ~ 240mm ²	From the 7 th day, 500km per day.
AC 0.6/1kV, 1.8/3kV DC 1500V	1~5C	35 ~ 630mm ²	Single core 500km per month. Multicore 200km per month.
6.35/11kV	1C, 3C	25 ~ 800mm ²	Single core 300km per month. Multicore 100km per month.
12.7/22kV	1C, 3C	35 ~ 800mm ²	
19/33kV	1C, 3C	50 ~ 800mm ²	

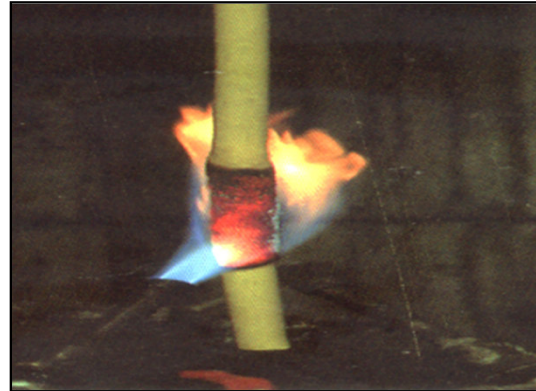
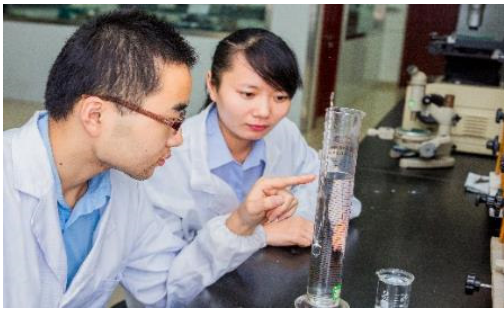


CNAS Certificate National Test Center Test Lab



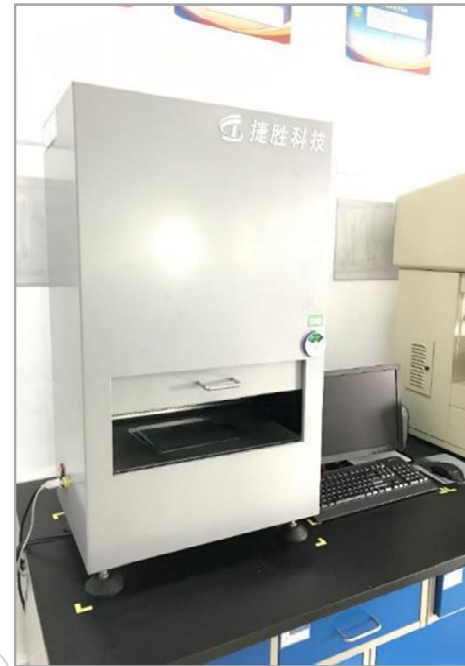
➤ TÜV Authorized Testing Lab





**Flame retardant
Fire resistant**

- Experienced staff
- Professional equipment





Production lines

From drawing to sheath extruding,
HENG TONG produced all the processes.

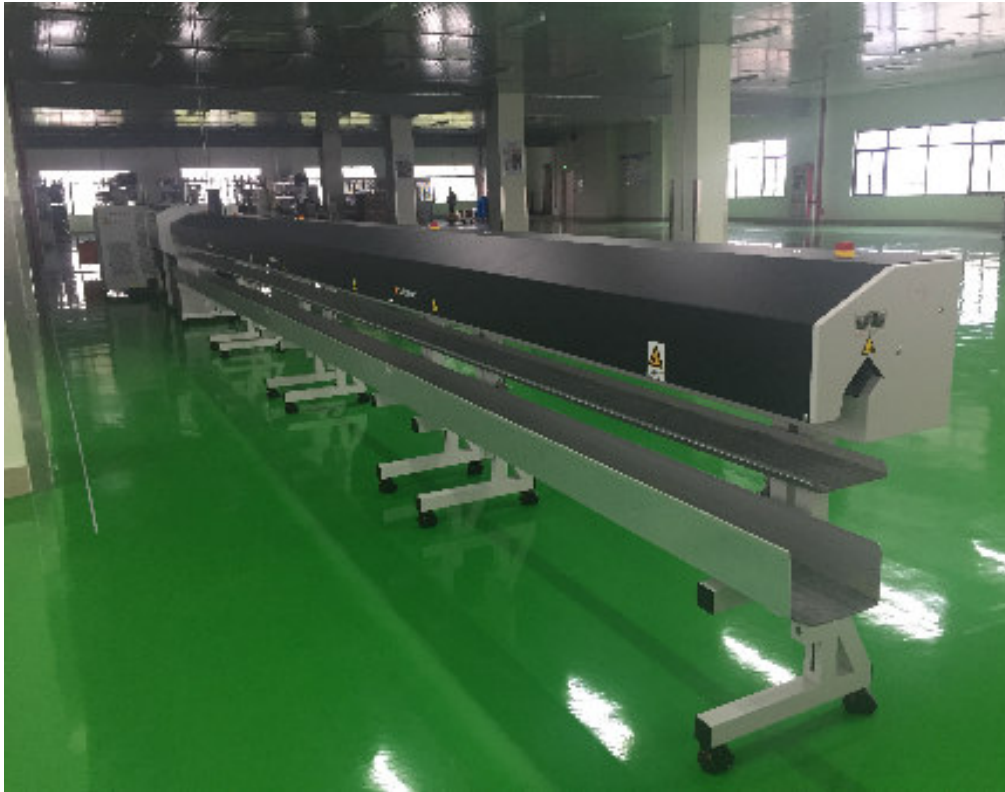




Crimping machine WDT(Swiss)
Range:6mm²-300mm²

Terminal Crimping machine
Punching pressure: 6T





SCHLEUNIGER(Swiss) Cutting and stripping production line



WDW5KN Type Mechanical TEST

String cable Electrical test machine





03

**Project
Reference**

Main Customers



创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION



risen
东方日升



Represent Projects



创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION

HENGTONG SHANDONG DONGYING Fishery/Solar combined project **144MW**
Thailand: Off-shore solar power station **58.5MW**
Singapore: Off-shore solar power station **60MW**



Represent Projects



创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION

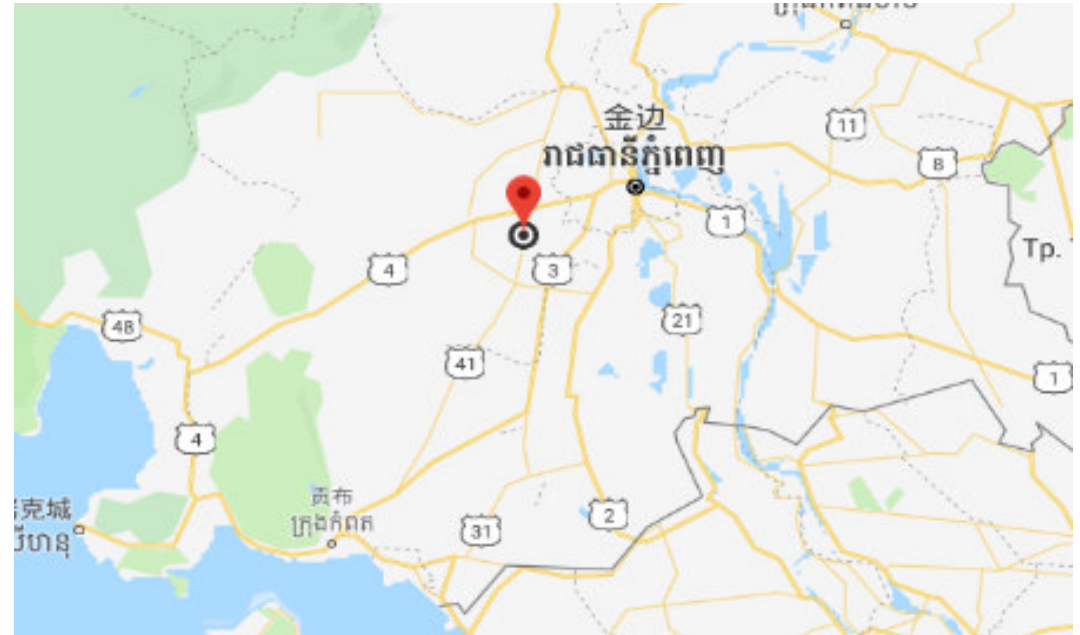
Pakistan-APPOLO-900MW Solar farm

The project can provide clean electricity of nearly 1.3 billion kWh per year, at least to solve the daily electricity consumption of 600,000 households in Pakistan and create more than 3,000 jobs



Cambodia-SchneiTec150MW Solar farm

The project is 150 megawatt SUSTAINABLE photovoltaic power plant project, located on 200 hectares of land next to Highway 51 in Wulang County.



Australia - Yaranlea 121MW

Queensland, Australia, covers an area of about 250 hectares. The electricity generated will be used in the Toowoomba and Darling Downs areas. The projected annual power generation capacity is 264GWh.



Australia - Merredin 132MW

The largest photovoltaic power plant in western Australia - 132MWdc
The power station is expected to produce 281 GWh of clean electricity per year, which is enough for nearly 42,000 households in Australia to use these green energy sources.



Represent Projects



创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION

Australia-Darlington Point 333MW

Located in New South Wales, it covers an area of approximately 2,000 acres and features a single-axis solar tracking bracket. After the completion of the power station, it will provide clean and safe solar power to over 115,000 homes in New South Wales each year.



Vietnam-

BANG DUONG solar farm **40.6MW**,

Van Giao 1 solar farm **50MW**

Van Giao 2 solar farm **50MW**.



Chile-USYA SOLAR PLANT

Located in the municipality of Calama (Antofagasta region), **51 MW** rated, 146 GWh, equivalent to the electricity demand of around 70,000 Chilean households.



Chile-EL ROMERO SOLAR PLANT

It is the highest capacity in Latin America. With **246 MW** peak capacity, 776,000 photovoltaic modules, El Romero Solar produces energy equivalent to the consumption of around 240,000 Chilean homes. Up to 80 MW are used cover 100% of Google's data center energy consumption in Chile.



Represent Projects



创造卓越 崇尚文明
CREATE EXCELLENCE ADVOCATE CIVILIZATION

Morocco-Noor solar thermal power station:

Phase II: 200MW, Largest solar parabolic trough power plant in the world

Phase III: 150MW, Tower 248m, 7400 solar mirror, solar tracing system



T H A N K Y O U



@hengtong group

Hengtong Optic-Electric Co., Ltd.

Stock Code: 600487

No. 2288, North Zhongshan Rd.,

Wujiang District, Suzhou City, Jiangsu Province, China

Website: www.hengtonggroup.com/en

Email : info@hengtonggroup.com

Tel : +86 512 6395 7850

Fax : +86 512 6395 7922