



2017 12 31



22.18%

" f i 6 | | 2 a P ^ æ B Ồ f







- 1.



38

300kg

20 N /P

CL200T  
3000mm





- 2.



13

N 2 P

8



180 $\mu$ m  
11%



26%



70 $\mu$ m

65 $\mu$ m



10%

25%



1.2GW

/  
1.8GW

2018





- 3.



 8

400MW

N

P

 8

20%

2

PID

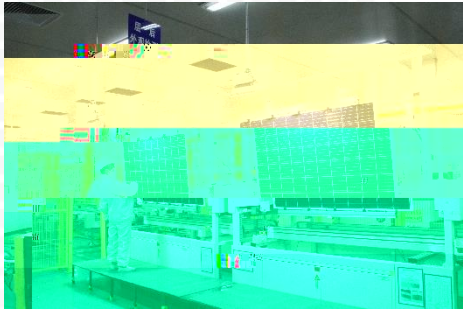
N

23





- 4.



PID

5

OEM

OEM

90%

104

3~10

IEC

P-PERC, N-PERT.HIT

4

MBB

N

17

17

1.2GW

2018

2.2GW





- 5.



### 太阳能产品认证证书

证书编号: CQC16024148155

**申请人名称及地址**

锦州锦德光伏科技有限公司  
辽宁省锦州经济技术开发区杏林街三段1-1号

**制造商名称及地址**

锦州锦德光伏科技有限公司  
辽宁省锦州经济技术开发区杏林街三段1-1号

**生产企业名称及地址**

锦州锦德光伏科技有限公司 (VU22992)  
辽宁省锦州经济技术开发区杏林街三段1-1号

**产品名称和系列、规格、型号**

地面用晶体硅光伏组件  
见附件

**产品标准和技术要求**

IEC61730-2:2004

**认证模式**

产品型式试验+初次工厂检查+获证后监督

上述产品符合CQC33-471341-2009认证规则的要求,特发此证。

发证日期: 2016年03月03日

证书有效期内本证书的有效性依据发证机构(CQC)授权保持。



主任: [Signature]



中国质量认证中心

分部·北京·美国环南路188号4层 100070  
http://www.cqc.com.cn

### 太阳能产品认证证书

证书编号: CQC16024131222

### 太阳能产品认证证书

附表:

第 2 页 共 2 页

证书编号: CQC15024133622

认证

Certificate

Registration No.: PV 0010200 Page 1 Report No.: 1601001-001

Applicant Name: Beijing Prosolar Technology Co., Ltd.	Product: Solar Panel
Applicant Address: No. 1, Xinglin Street, Jingshi Economic Development Zone, Jinzhou City, Liaoning Province, P.R. China	Model: PV-180P-60
Manufacturer Name: Beijing Prosolar Technology Co., Ltd.	Model: PV-180P-60
Manufacturer Address: No. 1, Xinglin Street, Jingshi Economic Development Zone, Jinzhou City, Liaoning Province, P.R. China	Model: PV-180P-60
Production Plant: Beijing Prosolar Technology Co., Ltd.	Model: PV-180P-60
Production Plant Address: No. 1, Xinglin Street, Jingshi Economic Development Zone, Jinzhou City, Liaoning Province, P.R. China	Model: PV-180P-60
Product Name and Specification: Solar Panel	Model: PV-180P-60
Product Standard and Technical Requirements: IEC61730-2:2004	Model: PV-180P-60
Certification Mode: Product Type Test + Initial Factory Inspection + Post-Certification Supervision	Model: PV-180P-60
Certificate Validity: The validity of this certificate is based on the authorization of the issuing institution (CQC) to maintain it.	Model: PV-180P-60



### VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG MARKS APPROVAL

Analisis danas fotovoltaik

Markas 180W 240V/120V/60V

Peraturan uji sertifikasi: IEC 61730-2:2004

Terapan pada: Modul sel surya

Terapan pada: Modul sel surya

Terapan pada: Modul sel surya

Terapan pada: Modul sel surya

Terapan pada: Modul sel surya

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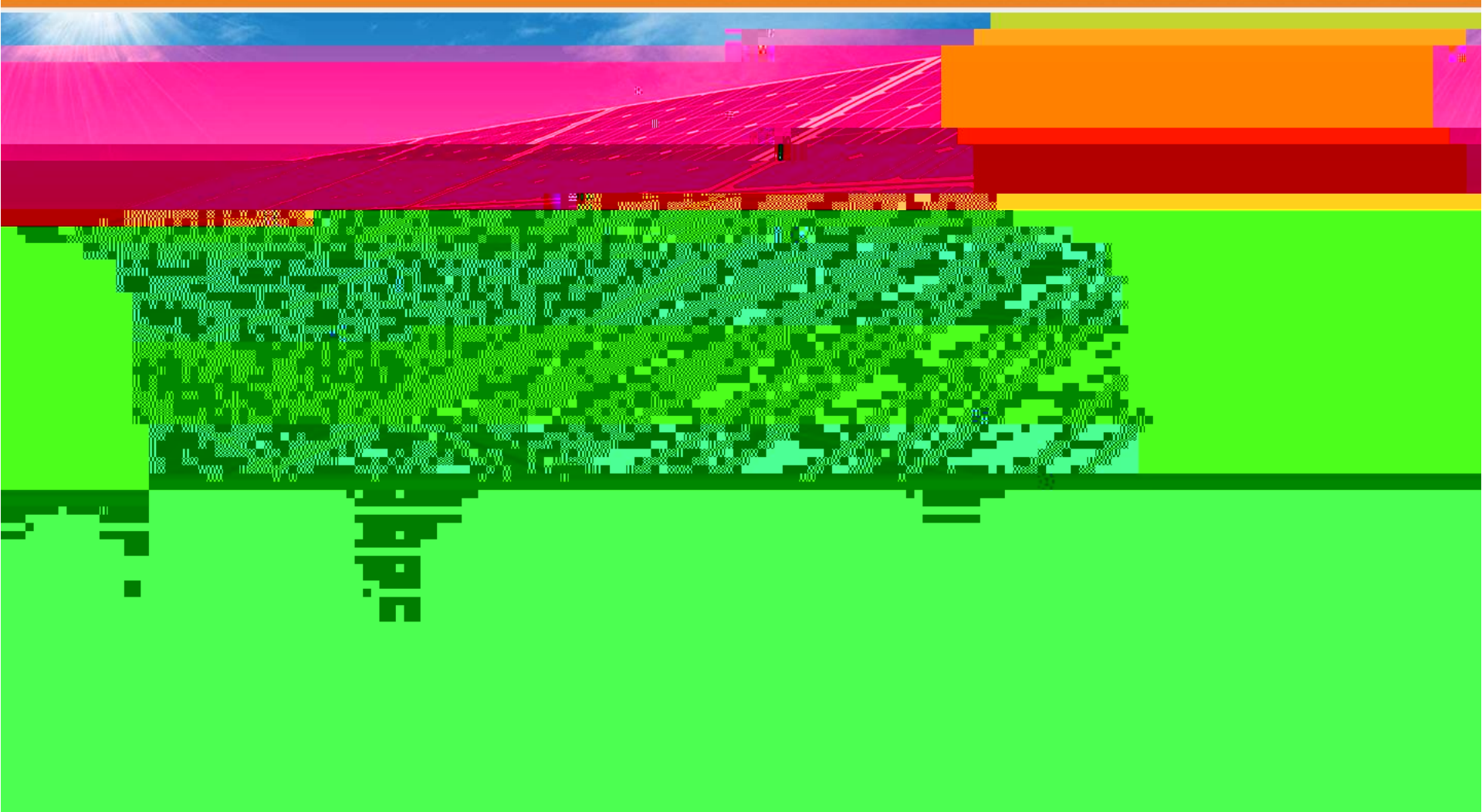
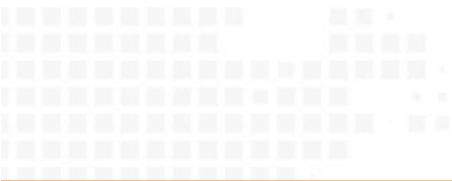
Terapan pada: Modul sel surya

Terapan pada: Modul sel surya

Terapan pada: Modul sel surya











# 2300

 GTM Research











( )



毛利率









2016 350

2017 400

2017





—



63%

1,252

769

SHARP SANSHIN ELECTRONICS CO.,LTD.



2018

2.2



N





1

2.2



600

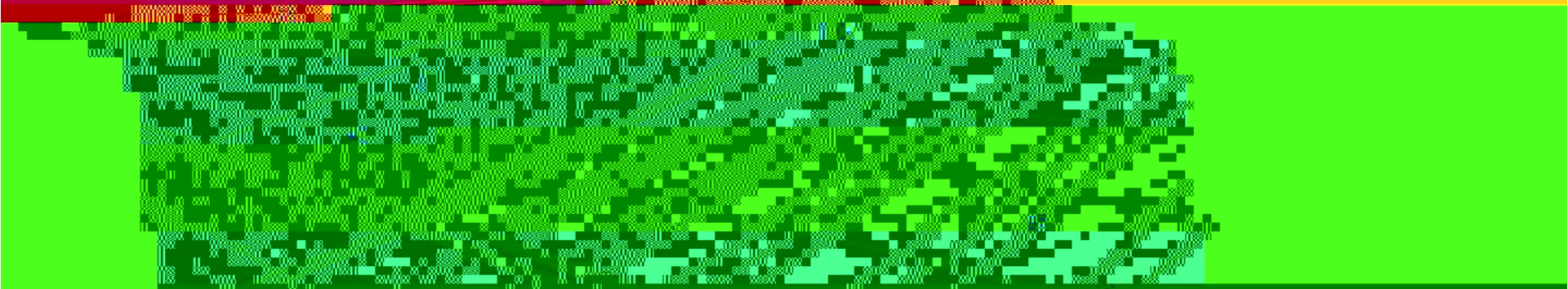
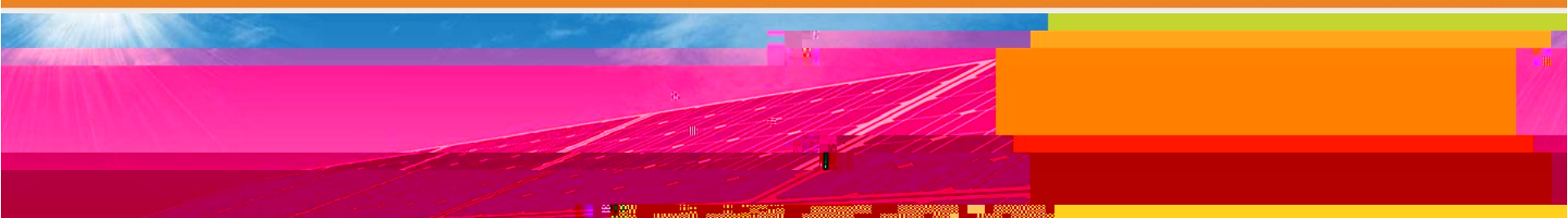
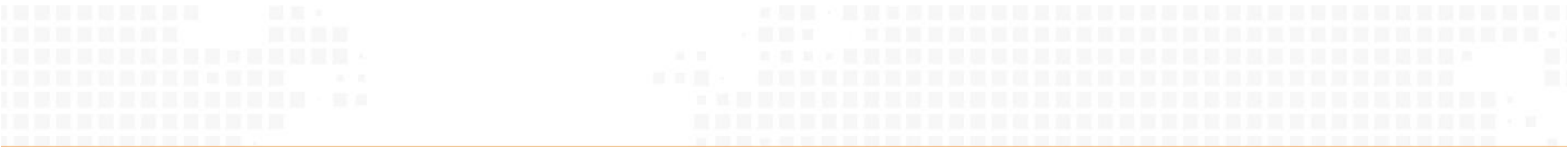
3000

1.2

600

2018







2017

1,543.4 2,427.8 57%  
75% 25% /

10.9% 16.4%

50%

2017  
123.757

251.595

2018

/

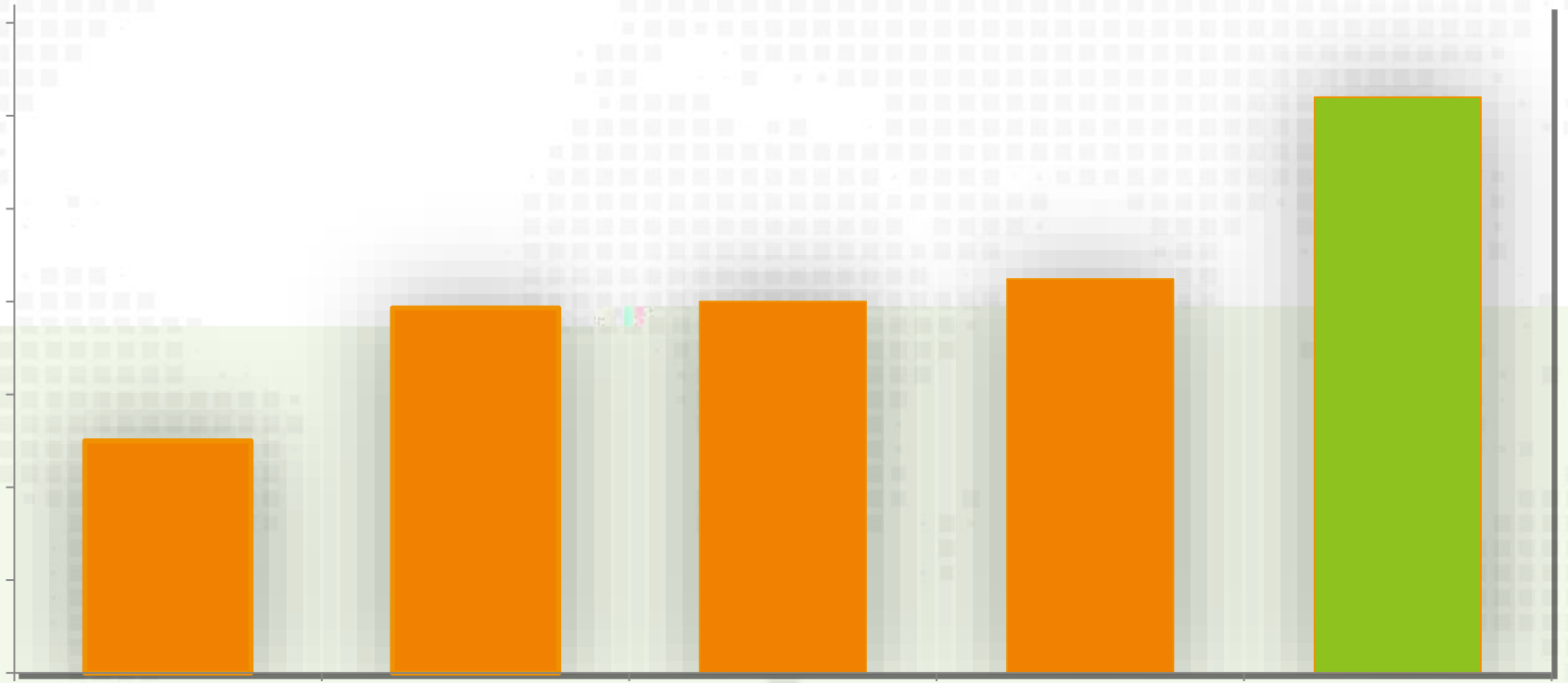
/

/





- 2017







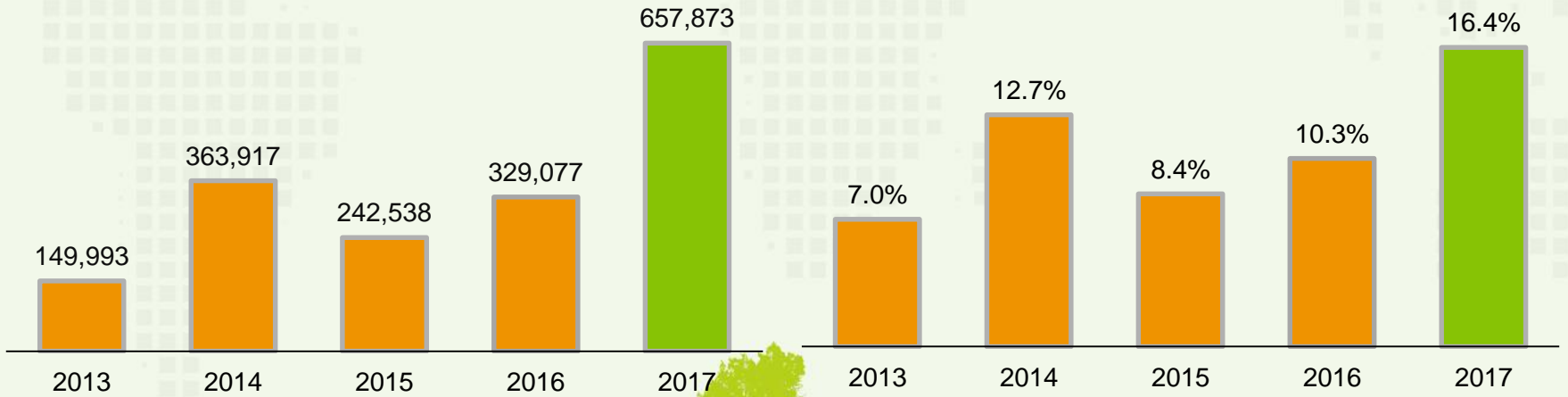
2017  
329.077

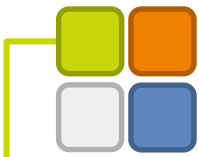
657.873  
10.3%

16.4% 2016

( )

(%)





■ ■ 2017  
■ ■ 2016

123.757      10.9%      16.4%  
 2017

1,543.4      2,427.8      57%

50%      251.595

( ' 000)	2017	2016	
(%)			





( ' 000)	2017 12 31	2016 12 31	
	2,821,891	2,284,503	537,388
	3,170,491	2,937,233	233,258
	4,611,210	4,274,548	336,662
	3,575,781	3,395,860	179,921
	1,035,429	878,688	156,741
( )	0.30	0.25	20%
( )	0.37	0.31	19%

: 1 = 1.2375





