Hizmark®
Group

Solar Photovoltaic

Solar PV

Introduction
Önsöz

Hizmark Group is established in 2004 to operate on Alternative Energy and Energy Efficiency fields.

As the pioneer company on solar applications in Turkey, Hizmark Group has taken active role in exhibitions, seminars, conferences and NGOs to popularize this sector which will have a big contribution to the country's economy. In this respect the company is one of the founding members of GENSED – Association of Solar Energy Industrialists and Industry, the NGO that operates on the field of solar energy applications in Turkey .

To use the energy resources more efficiently and on energy efficiency products, Hizmark Group also conducts activities on the field of LED lighting. Hizmark Group, with the help of its granted representatives both local and abroad since 2004, aims to be more effective in the sector of solar energy and LED lighting and to have a widespread dealer network.

Our products are also on sale on many e-Sales sites under the Hizmark brand.

What we say in a world where the energy resources are rapidly coming to an end is 'Come lets use our energy efficiently and build together a liveable world for the future using clean and solar energy.'

Lets Spread Our Slogan Together To The Whole World
"Now, Your Electricity Is From The Sun"

Hizmark Group, 2004 yılında Alternatif Enerji ve Enerji Verimliliği alanında faaliyet göstermek üzere kurulmuştur.

Güneş enerjisi uygulamalarında Türkiye'de öncü kuruluş olan Hizmark Group, ülke ekonomisine çok büyük katkı sağlayacak bu sektörün yaygınlaştırılması için fuarlar, seminerler, kongreler ve sivil toplum örgütlerinde aktif rol almıştır. Bu kapsamda Türkiye'de güneş enerji uygulamaları konusunda çalışan sivil toplum örgütü olan GENSED - Güneş Enerjisi Sanayicileri ve Endüstrisi Derneği'nin ilk kurucu üyelerinden biri olmuştur.

Hizmark Group, enerji kaynaklarını daha verimli kullanabilmek için enerji verimliliği ürünleri konusunda LED aydınlatma alanında da faaliyetlerini yürütmektedir. Hizmark Group, 2004 yılından itibaren vermeye başladığı yurtiçi ve yurtdışı temsilcilikleri sayesinde güneş enerji ve LED aydınlatma sistemleri konusunda sektörde çok daha etkin olmayı ve geniş bir bayii ağına sahip olmayı hedeflemektedir.

Ürünlerimiz aynı zamanda birçok E-satış sitesinde Hizmark markasıyla satılmaktadır.

Enerji kaynaklarının hızla tükenmekte olduğu bir dünyada diyoruz ki 'Gelin enerjimizi verimli kullanalım, temiz ve güneş enerjisini kullanarak gelecekte yaşanacak bir dünyayı birlikte kuralım.'

Sloganımızı Tüm Dünyaya Birlikte Yayalım
"Artık Elektriğiniz Güneşten"

Our Main Business Activities / *Başlıca Faaliyetlerimiz;*

- Solar PV Turn-key EPC Solutions / *Solar PV Anahtar Teslim Kurulum Çözümleri*
- Solar PV Module Sale / Solar PV Modülü Satışı
- Solar PV Steel Construction Production and Installation / Solar PV Konstrüksiyon İmalatı ve Montajı
- Solar PV Engineering / *Solar PV Mühendislik*
- Solar PV Off-Grid Systems / *Solar PV Şebekeden Bağımsız Sistemler*
- Solar PV On-Grid Systems / *Solar PV Şebekeye Bağlı Sistemler*
- Solar Lighting / *Solar Aydınlatma*
- LED Lighting / *LED Aydınlatma*
- BYD Turkey Distributor / *BYD Türkiye Distribütörü*
- EPC Partner SunEnergy Gmbh Germany / EPC Partneri SunEnergy Gmbh Almanya

Our Products
Ürünlerimiz

Hizmark® Group

Our Products and Services
Ürün ve Hizmetlerimiz

Solar Farms	Solar Home Energy Systems	Basic Energy Products	Solar / Led Lighting	Exterior Lighting	Industrial Lighting	General Lighting
Solar Santraller	*Solar Ev Enerji Sistemleri*	*Temel Enerji Ürünleri*	*Solar / Led Aydınlatma*	*Dış Aydınlatma*	*Sanayi Tipi Aydınlatma*	*Genel Aydınlatma*

Our Partners
Partnerlerimiz

Solar Photovoltaic
Solar PV

Hizmark Group

BYD - High Production Capacity
BYD – Yüksek Üretim Kapasitesi

BYD, one of the world's largest PV manufacturers, produces from wafer to module, committing to high quality sustainable products and continous improvement. Integrating with electrical vehicles and battery energy storage technology make BYD the world-leading solution provider from energy generating to consumption and storage.

Dünyanın en büyük PV panel üreticilerinden biri olan BYD, yüksek kaliteli dayanıklı ürünler ve sürekli gelişime bağlı kalarak plakadan panele kadar üretim yapar. Elektrikli araçlar ve batarya enerji depolaması teknolojisine entegre olmak, BYD'yi enerji üretimi, kullanımı ve depolaması konularında dünyanın önde gelen çözüm üreticisi yapar.

Wafer Production
Plaka Üretimi

Cell Production
Hücre Üretimi

Diffusion
Difüzyon

Edge Isolation
Kenar İzolasyonu

Screen Painting
Ekran Boyama

Cell Efficiency Testing
Hücre Verimlilik Testi

Layer Pressing
Tabaka Presleme

Junction Box Machine
Bağlantı Kutusu Makinası

Sunlight Simulator
Güneş Işığı Simulatörü

BYD Turkey Distributor

IEC TÜV CE PV CYCLE c UL us LISTED SP

Turkey Distributor

Solar Photovoltaic
Solar PV

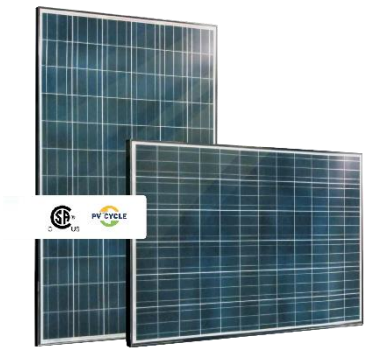
BYD PV Panels
BYD PV Panelleri

185 W | 190 W | 195 W | 200 W | 205 W

BYD P6C-24 Series-3BB
48 Cells / *Hücre*
1325 mm * 992 mm * 40 mm
25 Years Linear Performance
Yıl Lineer Performans
IEC 61215(Edition 2005), IEC 61730, UL1703, ISO9001:2008, ISO14001:2004

235 W | 240 W | 245 W | 250 W | 255 W

BYD P6C-30 Series-3BB
60 Cells / *Hücre*
1640 mm * 992 mm * 40 mm
25 Years Linear Performance
Yıl Lineer Performans
IEC 61215(Edition 2005), IEC 61730, ISO9001:2008, ISO14001:2004



285 W | 290 W | 295 W | 300 W | 305 W

BYD P6C-36 Series-3BB
72 Cells / *Hücre*
1956 mm * 992 mm * 40 mm
25 Years Linear Performance
Yıl Lineer Performans
IEC 61215(Edition 2005), IEC 61730, ISO9001:2008, ISO14001:2004

245 W | 250 W | 255 W | 260 W

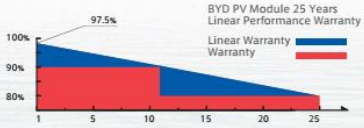
BYD P6C-30-DG Series-3BB
60 Cells / Hücre
1650 mm*990 mm*23.0 mm
40 Years Linear Performance
Yıl Lineer Performans
IEC 61215(Edition 2005), IEC 61730, UL1703, ISO9001:2008, ISO14001:2004

BYD PV Panels
BYD PV Panelleri

BYD P6C-24 Series-3BB

185W 190W 195W 200W 205W

- Average cell efficiency up to17.6%
  Excellent optical performance
- Positive tolerance 0~5W
  Reliability for output performance
- 12 years for product
  25 years linear Warranty
- Residential roof top systems
  On/Off-grid commercial systems
  On/Off-grid utility systems
- TUV Salt corrosion resistance test
  TUV Ammonia corrosion resistance test
  5400Pa for Snow Load Test
  2400Pa for Wind Load Test
- IEC 61215(Edition 2005), IEC 61730,
  ISO9001:2008, ISO14001:2004



Production Process

Wafer Production

Cell Production

Module Production

Module

About BYD

BYD (HK:1211), one of the world's top PV manufacturers, produces from wafer to module, committing to high quality sustainable products and continuous improvement. Integrating with Electrical Vehicles and Battery Energy Storage technology makes BYD the world-leading solution provider from energy generating to consumption and storage.

New Technology

NES
A high technology that is widely used in BYD photovoltaic products, increasing the average cell efficiency up to 17.6%

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Http://www.byd.com.cn

Edition No. EN-BYD- June-2013

Turkey Distributor

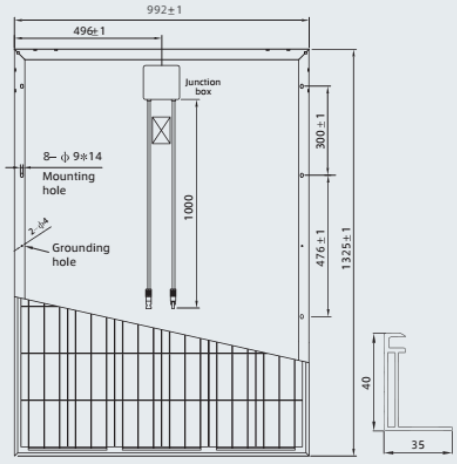
Solar Photovoltaic
Solar PV

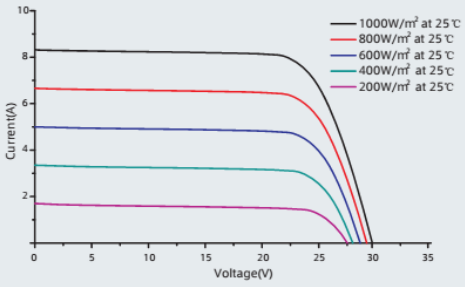
BYD PV Panels
BYD PV Panelleri

BYD P6C-24 Series-3BB

Build Your Dreams

185W 190W 195W 200W 205W





Mechanical Specifications

Cell	Polycrystalline Silicon solar cells 156mm * 156 mm / 6 inch
No. of Cells	48 (6 *8) pcses
Dimension of Module	1325 mm * 992 mm * 40 mm / 52.2 inch * 39.1 inch *1.6 inch
Weight	16.9 kg / 37.26 lbs
Front Glass	3.2 mm tempered glass wih AR Coating
Frame	Anodized aluminum alloy
Junction Box	IP65
Plug Connector	IP67
Bypass-Diodes	6 pcses / 3 pcses
Type of Connector	MC4 or MC4-compatible
Cable Section Area	4 mm² / 0.0062 Sq in
Cable Length	2 * 1000 mm / 2 * 39.4 inch

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	45℃± 2℃
Short-Circuit Current Temperature Coefficient	0.059%/℃
Open-Circuit Voltage Temperature Coefficient	-0.32%/℃
Peak Power Temperature Coefficient	-0.43%/℃

Package Information

Package	40' HC
Pcs / Pallet	25
Pallet / Container	32
Pcs / Container	800

BYD P6C-24 Series Electrical Specification

STC

Item \ Module	BYD 185P6C-24	BYD 190P6C-24	BYD 195P6C-24	BYD 200P6C-24	BYD 205P6C-24
Open Circuit Voltage (Voc)	29.03 V	29.33 V	29.63 V	29.93 V	30.23 V
Maximum Operating Voltage (Vmp)	23.11 V	23.47 V	23.82 V	24.17 V	24.50 V
Short Circuit Current (Isc)	8.58 A	8.66 A	8.74 A	8.82 A	8.90 A
Maximum Operating Current (Imp)	8.01 A	8.10A	8.19 A	8.28 A	8.37 A
Maximum Power in STC (Pmax)	185 Wp	190 Wp	195 Wp	200 Wp	205 Wp
Module Efficiency	14.07%	14.46%	14.84%	15.22%	15.60%
Operating Temperature	-40℃~85℃				
Max. Fuse Current Rating	15 A				
Maximum System Voltage	1000 VDC(IEC) / 600 VDC (UL)				
Power Tolerance	0~5W				
Application Classes	Class A				

STC: IRRADIANCE 1000W/m², Module Temperature 25℃, AM=1.5 Ave. efficiency reduction of 4.5% at 200W/m²

NOCT

Item \ Module	BYD 185P6C-24	BYD 190P6C-24	BYD 195P6C-24	BYD 200P6C-24	BYD 205P6C-24
Open Circuit Voltage (Voc)	26.59 V	26.89 V	27.00 V	27.20 V	27.50 V
Maximum Operating Voltage (Vmp)	21.05 V	21.40 V	21.60 V	21.90 V	22.20 V
Short Circuit Current (Isc)	7.02 A	7.12 A	7.14 A	7.18 A	7.22 A
Maximum Operating Current (Imp)	6.39 A	6.45 A	6.51 A	6.59 A	6.65 A
Maximum Power in NOCT (Pmax)	134.5 Wp	138.0 Wp	141.1 Wp	144.8 Wp	148.4 Wp

NOCT: open-circuit module operation temperature at 800W/m2 irradiance, 20° C ambient temperature, 1m/s wind speed.

Solar Photovoltaic
Solar PV

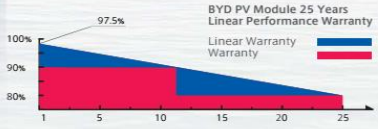
Hizmark Group

BYD PV Panels
BYD PV Panelleri

BYD P6C-30 Series-3BB

235W 240W 245W 250W 255W

- Average cell efficiency up to17.6%
  Excellent optical performance
- Positive tolerance 0~5W
  Reliability for output performance
- 12 years for product
  25 years linear Warranty
- Residential roof top systems
  On/Off-grid commercial systems
  On/Off-grid utility systems
- TUV Salt corrosion resistance test
  TUV Ammonia corrosion resistance test
  5400Pa for Snow Load Test
  2400Pa for Wind Load Test
- IEC 61215(Edition 2005), IEC 61730,
  ISO9001:2008, ISO14001:2004



Production Process

Wafer Production

Cell Production

Module Production

Module

About BYD

BYD (HK:1211), one of the world's top PV manufacturers, produces from wafer to module, committing to high quality sustainable products and continuous improvement. Integrating with Electrical Vehicles and Battery Energy Storage technology makes BYD the world-leading solution provider from energy generating to consumption and storage.

New Technology

NES
A high technology that is widely used in BYD photovoltaic products, increasing the average cell efficiency up to 17.6%

P6C-24
185W - 205W

P6C-30
245W - 260W

P6C-36
295W - 310W

Turkey Distributor

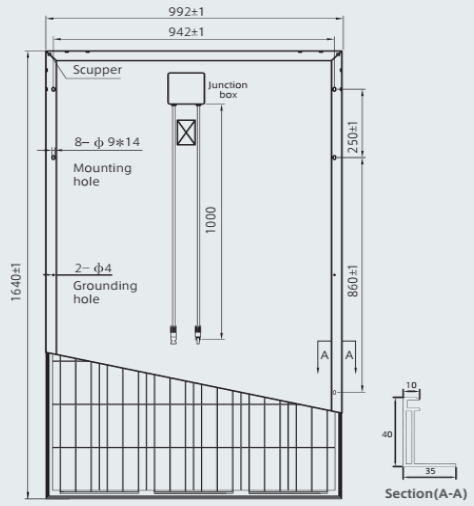
Solar Photovoltaic
Solar PV

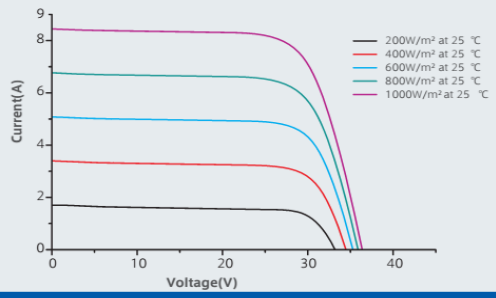
BYD PV Panels
BYD PV Panelleri

BYD P6C-30 Series-3BB

Build Your Dreams

235W 240W 245W 250W 255W





Mechanical Specifications

Cell	Polycrystalline Silicon solar cells 156mm * 156 mm / 6 inch
No. of Cells	60 (6 *10) pcses
Dimension of Module	1640 mm * 992 mm * 40 mm / 64.6 inch * 39.1 inch *1.6 inch
Weight	18.9kg / 41.67 lbs
Front Glass	3.2 mm tempered glass with AR Coating
Frame	Anodized aluminum alloy
Junction Box	IP65
Plug Connector	IP67
Bypass-Diodes	6 pcses / 3 pcses
Type of Connector	MC4 or MC4-compatible
Cable Section Area	4 mm² / 0.0062 Sq in
Cable Length	2 * 1000 mm / 2 * 39.4 inch

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	45℃± 2℃
Short-Circuit Current Temperature Coefficient	0.059%/℃
Open-Circuit Voltage Temperature Coefficient	-0,32%/℃
Peak Power Temperature Coefficient	-0,43%/℃

Package Information

Package	40' HC
Pcs / Pallet	25
Pallet / Container	28
Pcs / Container	700

BYD P6C-30 Series Electrical Specification

STC

Item \ Module	BYD 235P6C-30	BYD 240P6C-30	BYD 245P6C-30	BYD 250P6C-30	BYD 255P6C-30
Open Circuit Voltage (Voc)	36.83 V	37.14 V	37.45 V	37.76V	38.07 V
Maximum Operating Voltage (Vmp)	29.27 V	29.57 V	29.85 V	30.13 V	30.40 V
Short Circuit Current (Isc)	8.57 A	8.65 A	8.73 A	8.81A	8.89 A
Maximum Operating Current (Imp)	8.03 A	8.12 A	8.21 A	8.30 A	8.39 A
Maximum Power in STC (Pmax)	235 Wp	240 Wp	245 Wp	250 Wp	255 Wp
Module Efficiency	14.44%	14.75%	15.06%	15.37%	15.67%
Operating Temperature	-40℃~85℃				
Max. Fuse Current Rating	15A				
Maximum System Voltage	1000 VDC(IEC) / 600 VDC (UL)				
Power Tolerance	0~5W				
Application Classes	Class A				

STC: IRRADIANCE 1000W/m², Module Temperature 25℃, AM=1.5 Ave. efficiency reduction of 4.5% at 200W/m²

NOCT

Item \ Module	BYD 235P6C-30	BYD 240P6C-30	BYD 245P6C-30	BYD 250P6C-30	BYD 255P6C-30
Open Circuit Voltage (Voc)	33.84 V	34.14 V	34.45 V	34.74 V	34.99 V
Maximum Operating Voltage (Vmp)	26.69 V	26.99 V	27.27 V	27.57 V	27.86 V
Short Circuit Current (Isc)	6.96 A	7.02 A	7.07 A	7.12 A	7.17 A
Maximum Operating Current (Imp)	6.40 A	6.47 A	6.53 A	6.58 A	6.62 A
Maximum Power in NOCT (Pmax)	170.8 Wp	174.6 Wp	178.1 Wp	181.4 Wp	184.4 Wp

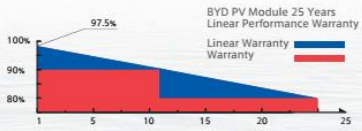
NOCT: open-circuit module operation temperature at 800W/m2 irradiance, 20° C ambient temperature, 1m/s wind speed.

BYD PV Panels
BYD PV Panelleri

BYD P6C-36 Series-3BB

285W 290W 295W 300W 305W

- Average cell efficiency up to17.6%
  Excellent optical performance
- Positive tolerance 0~5W
  Reliability for output performance
- 12 years for product
  25 years linear Warranty
- Residential roof top systems
  On/Off-grid commercial systems
  On/Off-grid utility systems
- TUV Salt corrosion resistance test
  TUV Ammonia corrosion resistance test
  5400Pa for Snow Load Test
  2400Pa for Wind Load Test
- IEC 61215(Edition 2005), IEC 61730,
  ISO9001:2008, ISO14001:2004



Production Process

Wafer Production

Cell Production

Module Production

Module

About BYD

BYD (HK:1211), one of the world's top PV manufacturers, produces from wafer to module, committing to high quality sustainable products and continuous improvement. Integrating with Electrical Vehicles and Battery Energy Storage technology makes BYD the world-leading solution provider from energy generating to consumption and storage.

New Technology

NES
A high technology that is widely used in BYD photovoltaic products, increasing the average cell efficiency up to 17.6%

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Http://www.byd.com.cn

Edition No. EN-BYD- June-2013

Turkey Distributor

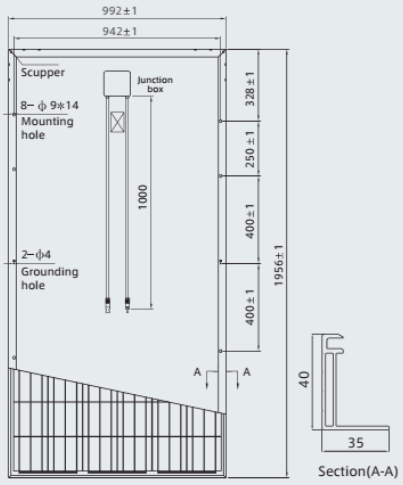
Solar Photovoltaic
Solar PV

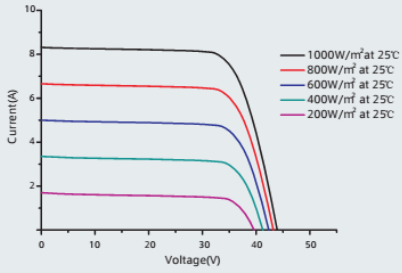
BYD PV Panels
BYD PV Panelleri

BYD P6C-36 Series-3BB

Build Your Dreams

285W 290W 295W 300W 305W





Mechanical Specifications

Cell	Polycrystalline Silicon solar cells 156mm * 156 mm / 6 inch
No. of Cells	72 (6 *12) pcses
Dimension of Module	1956 mm * 992 mm * 40 mm / 77.0 inch * 39.1 inch *1.6 inch
Weight	22.4kg / 49.38 lbs
Front Glass	3.2 mm tempered glass with ARC
Frame	Anodized aluminum alloy
Junction Box	IP65
Plug Connector	IP67
Bypass-Diodes	6 pcses / 3 pcses
Type of Connector	Mc4 or MC4-compatible
Cable Section Area	4 mm² / 0.0062 Sq in
Cable Length	2 * 1000 mm / 2 * 39.4 inch

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	45℃± 2℃
Short-Circuit Current Temperature Coefficient	0.059%/℃
Open-Circuit Voltage Temperature Coefficient	-0.32%/℃
Peak Power Temperature Coefficient	-0.43%/℃

Package Information

Package	40' HC
Pcs / Pallet	25
Pallet / Container	22
Pcs / Container	550

BYD P6C-36 Series Electrical Specification

STC

Module / Item	BYD 285P6C-36	BYD 290P6C-36	BYD 295P6C-36	BYD 300P6C-36	BYD 305P6C-36
Open Circuit Voltage (Voc)	44.30 V	44.60 V	44.90 V	45.19V	45.49V
Maximum Operating Voltage (Vmp)	35.40 V	35.65 V	35.76 V	35.97 V	36.18 V
Short Circuit Current (Isc)	8.60 A	8.67 A	8.75 A	8.83 A	8.91 A
Maximum Operating Current (Imp)	8.07 A	8.16 A	8.25 A	8.34 A	8.43A
Maximum Power in STC (Pmax)	285 Wp	290 Wp	295 Wp	300 Wp	305 Wp
Module Efficiency	14.69%	14.95%	15.20%	15.46%	15.72%
Operating Temperature	-40℃~85℃				
Max. Fuse Current Rating	15 A				
Maximum System Voltage	1000 VDC(IEC) / 600 VDC (UL)				
Power Tolerance	0~5W				
Application Classes	Class A				

STC: IRRADIANCE 1000W/m², Module Temperature 25℃, AM=1.5 Ave. efficiency reduction of 4.5% at 200W/m²

NOCT

Module / Item	BYD 285P6C-36	BYD 290P6C-36	BYD 295P6C-36	BYD 300P6C-36	BYD 305P6C-36
Open Circuit Voltage (Voc)	40.75 V	41.04	41.33 V	41.62 V	41.89 V
Maximum Operating Voltage (Vmp)	32.25 V	32.50 V	32.79 V	32.97V	33.20V
Short Circuit Current (Isc)	6.96 A	7.06 A	7.10 A	7.14 A	7.18 A
Maximum Operating Current (Imp)	6.42 A	6.48 A	6.51 A	6.57 A	6.61 A
Maximum Power in NOCT (Pmax)	207.1 Wp	210.7 Wp	213.6 Wp	216.6 Wp	219.5 Wp

NOCT: open-circuit module operation temperature at 800W/m2 irradiance, 20° C ambient temperature, 1m/s wind speed.

BYD PV Panels
BYD PV Panelleri

BYD P6C-30-DG Series-3BB

245W 250W 255W 260W

NEW!

BYD 430 PV Game Changer

- Longer service time up to 40 years,and get more profit benefit after the rest 15 years.
- Lower power degradation-only 0.3%/year
- Free PID & free Snail cracks

Game Changer-BYD generation 2 Double glass module

More Profitable
-Lower power degradation-0.3%/year
-Longer service time up to 40 years, and get more profit benefit after the rest 15 years.
-Easier installation
-Lower balance of system cost

More Durable
-The design of dual glass module to minimize micro-cracks
-Longer service time up to 40 years

More Efficient
-No UV cut off
-Higher power output

More Reliable
-PID free
-Free snail trials
-Stable encapsulating material

17.8% Average cell efficiency up to17.8%
Excellent optical performance

0~5w Positive tolerance 0~5W
Reliability for output performance

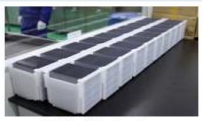
12 Years 12 years for product
25 years linear Warranty

Grid Residential roof top systems
On/Off-grid commercial systems
On/Off-grid utility systems

3rd 5400Pa for Snow Load Test
2400Pa for Wind Load Test

IEC 61215(Edition 2005), IEC 61730, UL1703, ISO9001:2008, ISO14001:2004

Production Process


Wafer Production

Cell Production

Module Production

Module

About BYD

BYD (HK:1211), one of the world's top PV manufacturers, produces from wafer to module, committing to high quality sustainable products and continuous improvement. Integrating with Electrical Vehicles and Battery Energy Storage technology makes BYD the world-leading solution provider from energy generating to consumption and storage.

BYD COMPANY LIMITED Headquarter
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Tel: +86-755-8988 8888
Fax: +86-755-8420 2222
Email: bydpv@byd.com
Http: //www.byd.com

Turkey Distributor

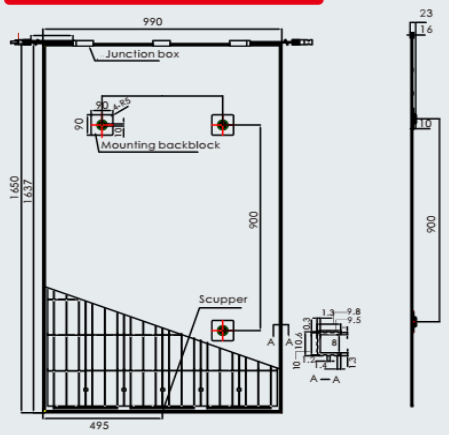
Solar Photovoltaic
Solar PV

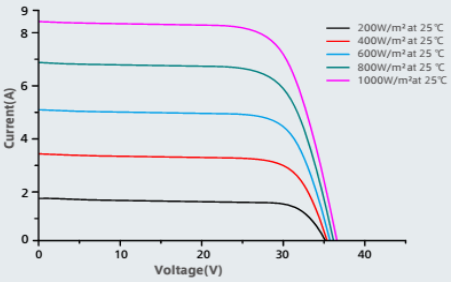
BYD PV Panels
BYD PV Panelleri

BYD P6C-30-DG Series-3BB

Build Your Dreams

245W 250W 255W 260W





Mechanical Specifications

Cell	Polycrystalline Silicon solar cells 156mm * 156 mm / 6 inch
No. of Cells	60 (6 *10) pcses
Dimension of Module	1650 mm*990 mm*23.0 mm / 65.0 inch*39.0 inch*0.91 inch
Weight	26kg / 57.3 inch
Front Glass	3.2 mm tempered glass with AR Coating
Frame	PPO
Junction Box	PV-ZH011C-1
Plug Connector	IP67
Bypass-Diodes	3 pcses
Type of Connector	PV-ZH202
Cable Section Area	4 mm² / 0.0062 Sq in
Cable Length	2 * 400 mm / 2 * 15.7 inch
Max. Fuse Current Rating	20 A

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	45℃ ± 2℃
Short-Circuit Current Temperature Coefficient	0.059%/℃
Open-Circuit Voltage Temperature Coefficient	-0.32%/℃
Peak Power Temperature Coefficient	-0.43%/℃

Package Information

Package	40' HC
Pcs / Pallet	32
Pallet / Container	28
Pcs / Container	896

BYD P6C-30-DG Series Electrical Specification

STC

Item \ Module	BYD 245P6C-30-DG	BYD 250P6C-30-DG	BYD 255P6C-30-DG	BYD 260P6C-30-DG
Voc	37.45 V	37.76V	38.07 V	38.38V
Vmp	29.85 V	30.13 V	30.40V	30.67 V
Isc	8.73A	8.81A	8.89 A	8.97 A
Imp	8.21 A	8.30A	8.39 A	8.48A
Pmax	245 Wp	250 Wp	255 Wp	260 Wp
Module Efficiency	15.09%	15.40%	15.71%	16.01%
Operating Temperature	-40℃~85℃			
Max.Fuse Current Rating	20 A			
Maximum System Voltage	1001 VDC			
Power Tolerance	0~5 W			
Application Classes	Class A			

STC: IRRADIANCE 1000W/m², Module Temperature 25℃, AM=1.5 Ave. efficiency reduction of 4.5% at 200W/m²

NOCT

Item \ Module	BYD 245P6C-30-DG	BYD 250P6C-30-DG	BYD 255P6C-30-DG	BYD 260P6C-30-DG
Voc	34.45V	34.74V	34.99V	35.00V
Vmp	27.27V	27.57V	27.86V	28.3V
Isc	7.07A	7.12A	7.17A	7.26A
Imp	6.53A	6.58A	6.62A	6.65A
Pmax	178.1Wp	181.4Wp	184.4Wp	188.5Wp

NOCT: open-circuit module operation temperature at 800W/m2 irradiance, 20° C ambient temperature, 1m/s wind speed.

Solar Photovoltaic
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Hizmark Group

BYD - Global Giant in Technology and Energy Efficiency

BYD – Teknoloji ve Enerji Verimliliğinde Dünya Devi

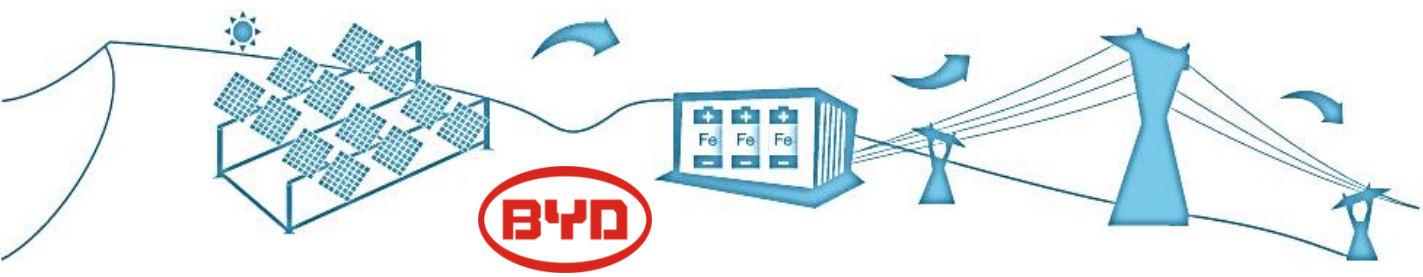
IEC TÜV CE PV CYCLE c UL us LISTED SP

In the first quarter of 2013 BYD has had a profit increase of 200%
BYD 2013'ün ilk çeyreğinde %200 kar artışı gerçekleştirdi.
Forbes – Nisan 2013

In 2010 BYD is No.1 among the list of tech companies
BYD 2010'da Teknoloji Firmaları Listesinde 1 Numarada
Bloomberg Businessweek – Top Tech 100, December 2010

World's greatest investor Warren Buffett from the US is BYD's 10% shareholder since 2008.
Dünyanın en büyük yatırımcısı Amerikan Warren Buffet 2008'den beri BYD'nin %10 ortağıdır.

BYD Turkey Distributor



BYD Turkey Distributor

Solar Photovoltaic
Solar PV

BYD PV Panel Tests and Warranty
BYD PV Panel Testleri ve Garanti

Manufacture Independent Third Party Test Report

Üreticiden Bağımsız Test Raporları

Test of potential induced degredation
Potansiyel endüklenen aşınma testi

Fire Test
Yanma testi

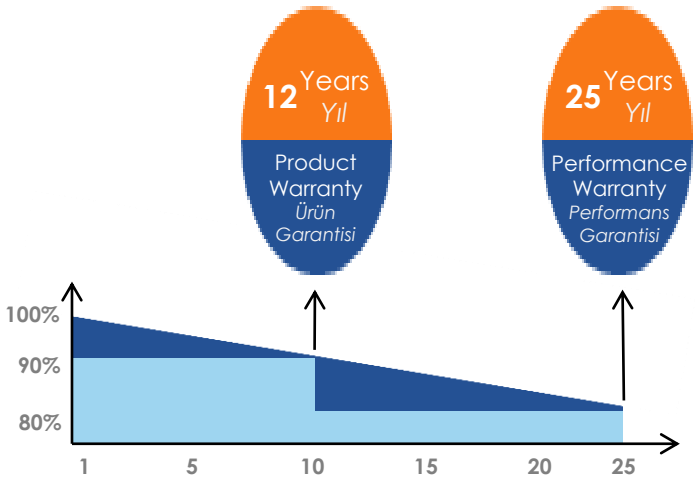
Salt mist corrosion test & Ammonia corrosion
Tuz buğusu korozyon & Amonyak paslanması testi

Sand Test
Kum testi

Enhanced test based on IEC 61215
Geliştirilmiş IEC 61215 testi

Warranty Period

Garanti Süreleri



BYD PV modules have 25 years performance warranty.
BYD PV Modüllerinin 25 Yıl performans garantisi vardır.

	IEC 61215 Standard	BYD Panel
Thermal UV Test *Termal UV Test*	15 kWh/m²	180 kWh/m²
Thermal Cycling Test *Termal Periyodik İşletme Testi*	200 times / *kere*	800 times / *kere*
Damp Heat Test *Yaş Isı Testi*	1000 hours / *saat*	4000 Hours / *saat*

4 times strength test based on IEC standard
After 3000 hours damp heat the performance loss is only – 1%

IEC 61215 standardına göre 4 misli dayanıklı değerler
3000 saat yaş ısı testinden sonra sadece -1% performans kaybı

Solar Photovoltaic
Solar PV

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Global References Where BYD PV Modules Are Used
BYD Panellerinin Kullanıldığı Global Referanslar

Some Reference Projects
Bazı Referans Projeler

Belgium
2.2 MW Brüksel
June 2013 - Rooftop

Germany
24.4 MW Lauenburg
July 2012 - Ground

9.9 MW Ronneburg
June 2012 - Ground

6.4 MW Libesheim
December 2012 - Ground

5.68 MW Bad Liebenwerda
June 2012 - Ground

3.65 MW Warenshof
July 2012 - Ground

3.5 MW St. Wendel
August 2011 - Ground

3.2 MW Stuttgart
June 2012 - Ground

24.4 MW Gödenroth
October 2010 - Ground

1 MW Kuppenheim
November 2011 - Ground

3.18 MW Lachendorf
June 2013 - Ground

Italy
2.5 MW Monto
August 2011 - Ground

France
10.4 MW Mos
March 2013 - Ground

USA
600 kW Henderson, Nevada
February 2012 - Ground

Bulgaria
4.1 MW Kardzhali
March 2013 - Ground

South Africa
75 MW Güney Afrika
Under Construction - Ground

Israil
13.3 MW İsrail
Under Construction - Rooftop

Japan
1.79 MW Shiga
June 2013 - Ground

China
10.8 MW Pingshan
October 2012 - Rooftop

1 MW Shenzen
July 2010 - Ground

BYD Turkey Distributor

Hizmark®
Group

Hizmark Corporate

Hizmark Kurumsal

Hizmark Corporate
Hizmark Kurumsal

Exhibitions - *Fuarlar*

Active in the solar energy and led lighting sector since 2004, Hizmark has attended many exhibitions and conferences as exhibitior and/or spokesman.

2004 yılından bugüne kadar solar enerji ve led aydınlatma sektöründe faaliyet gösteren Hizmark bir çok fuar ve konferansta katılımcı ve konuşmacı olarak yer almıştır.

Kocaeli Sanayi 2005
Recyling 2006
Recycling 2007
Solar Energy 2008
Ulusal Temiz Enerji 2008
Solar Energy 2009
İnşaatda Yeni Ürünler 2009
Greenpower 2009
Solar Energy 2010
Solarex 2011
İstanbullight 2013
Solarex 2014

2005

2006

2007

2008

2008

2009

2009

2009

2010

2011

2013

2014

Hizmark Corporate
Hizmark Kurumsal

GENSED Membership
GENSED Üyeliği

Hizmark Group is one of the founding and first two term's board members of GENSED - the first and largest solar energy NGO in Turkey.

Hizmark Group, Türkiye'nin ilk ve en büyük solar enerji derneği olan GENSED'in hem kurucu hem de ilk iki yönetim kurulu üyelerinden biridir.

Global Distributors and Partners
Global Distribütör ve Partnerler

Media
Medya

Press – *Basın*

Hürriyet

Radikal

Sabah

Dünya

Zaman

Yeni Şafak

Magazines - *Dergiler*

Global Enerji
Flora Plus
İnşaat Yatırım
Tesisat
Gelişim
Enerji
Yeni Enerji
Güneş Enerjisi
E-Belediye
Tütev Teknik
Yapı
Mall Report
Best
AVM Marka

Visual Media – *Görsel Medya*

CNN Türk
Gece
Görüşü
Yenigün

Kanal A
Ana Haber
Haberler

STAR
Hayatın
İçinden

TGRT
Ana Haber

Hizmark Corporate
Hizmark Kurumsal

Some References - *Bazı Referanslar*

TOYOTA FABRİKASI · PALMETTO PARIS · İSTANBUL SAPPHIRE · dagi · arti&arti teknoloji hizmetleri
DPC DOĞAN PRINTING CENTER · TRUMP TOWERS MALL İSTANBUL / ŞİŞLİ · Dogan · Grand Yavuz Hotel · Ph The Plaza Hotel İstanbul
kent FABRİKASI · DÜNYA · SAİT HALİM PAŞA YALISI · AMERİKAN HASTANESİ · AVCILAR BELEDİYE BAŞKANLIĞI

Some E-Sales Sites - *Bazı E-Satış Siteleri*

hepsiburada.com · arabulsar içinde her şey var · hızlıal.com Alışverişin Hızlı Adresi · gitti gidiyo · Evim.net
sahibinden.com · markafoni · evmanya · morhipo.com · n11.com

Our Global Cooperations - *Global İşbirliklerimiz*

Hizmark®
Group

Sun is our future

Güneş Geleceğimizdir

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