

N Type Mono Solar Cell

# XTL-B108

## 410W~450W

- Excellent Outdoor Power Generation Performance
- High Quality Long-term Reliability



12 years' product material and process warranty



25 Years' power output warranty



Wonderful Quality Assurance System& Production Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO 质量管理体系

TUV/CE/CB/CQC等产品认证



## Data sheet under STC Condition

|                                 |        |        |        |        |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Maximum power at STC (Pmax)     | 410W   | 415W   | 420W   | 425W   | 430W   | 435W   | 440W   | 445W   | 450W   |
| Optimum operating voltage (Vmp) | 31.35V | 31.47V | 31.60V | 31.66V | 31.80V | 31.88V | 32.00V | 32.04V | 32.21V |
| Optimum operating current (Imp) | 13.08A | 13.19A | 13.29A | 13.42A | 13.52A | 13.65A | 13.75A | 13.89A | 13.97A |
| Open-circuit voltage (Voc)      | 37.89V | 37.94V | 38.00V | 38.06V | 38.22V | 38.44V | 38.66V | 38.82V | 39.04V |
| Short-circuit current (Isc)     | 13.52A | 13.84A | 13.96A | 14.09A | 14.20A | 14.33  | 14.44A | 14.58A | 14.67A |

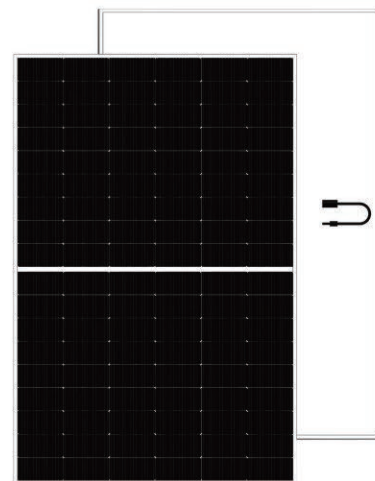
STC: 辐照度1000W/ m<sup>2</sup>; AM 1.5; 环境温度: 25°C; 依据EN60904-3测试;  
 (STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5)  
 NMOT: 辐照度800W/ m<sup>2</sup>; 风速1m/s; 环境温度20;  
 (STC: Irradiance 1000W/m<sup>2</sup>, wind speed: 1m/s, Module temperature 20°C)  
 Pm的公差0~+5W;  
 (Tolerance of Pm: 0~+5W)

## Mechanical Parameters

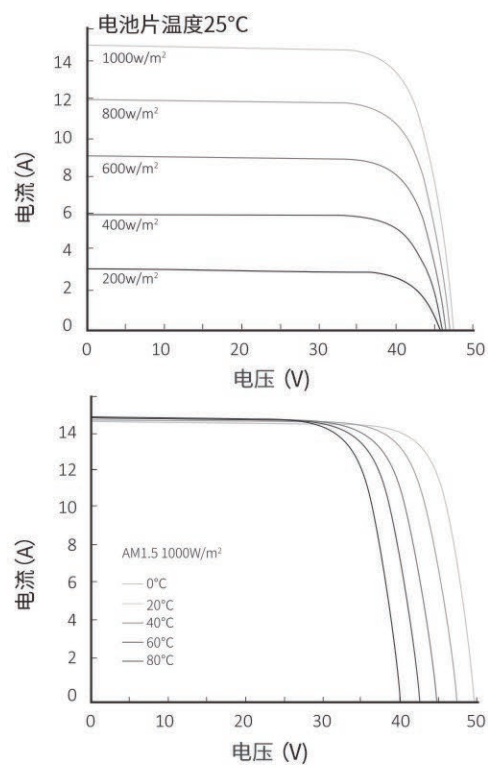
|                         |                                                                |
|-------------------------|----------------------------------------------------------------|
| Cell                    | N Type Mono-crystalline silicon solar cells                    |
| Cell Size               | 182mm*91mm                                                     |
| Cell Quantity           | 108Pcs(6*18)                                                   |
| Dimension of module     | 1723mm×1134mm×30mm                                             |
| Weight                  | 20.5kg                                                         |
| Junction Box            | Separated Junction Box with 3 diodes                           |
| Output Cables           | 4mm <sup>2</sup>                                               |
| Max. Static LDS (Front) | 5400kpa                                                        |
| Max. Static LDS (Back)  | 2400kpa                                                        |
| Hail Test               | Diameter: 25mm, with speed: 23m/s                              |
| Glass                   | 3.2mm                                                          |
| Package                 | 35PCS/Package/Pallet 420PCS/20' GQ (2pcs/carton) 936pcs/40' HQ |
| Protection Grade        | Class II                                                       |
| Fire Protection Class   | IEC Class C                                                    |

## Rated Parameters

|                                               |                    |
|-----------------------------------------------|--------------------|
| Short-circuit current temperature coefficient | (0.065±0.015) %/°C |
| Open-circuit voltage temperature coefficient  | (80±10) mV/°C      |
| Peak power temperature coefficient            | -(0.5±0.05) %/°C   |
| NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)        | 47±2°C             |
| Operating temperature                         | -40°C to 85°C      |
| Maximum system voltage                        | 1500V DC           |
| Power tolerance                               | ±1%                |



## I-V曲线



申明: 随着技术进步与产品更新, 后期的组件产品技术参数与本规格书包含的各技术参数可能存在偏差, 鑫泰莱有权在不通知客户的情况下随时调整各技术参数, 该技术规格书最终解释权归山东鑫泰莱光电股份有限公司所有。

**N Type Mono Solar Cell**

# XTL-B126

## 480W~500W

- Excellent Outdoor Power Generation Performance
- High Quality Long-term Reliability



12 years' product material and process warranty



25 Years' power output warranty



Wonderful Quality Assurance System& Production Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO 质量管理体系

TUV/CE/CB/CQC等产品认证





## Data sheet under STC Condition

|                                 |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|
| Maximum power at STC (Pmax)     | 480W   | 485W   | 490W   | 495W   | 500W   |
| Optimum operating voltage (Vmp) | 36.54V | 36.64V | 36.84V | 36.90V | 37.00V |
| Optimum operating current (Imp) | 13.14A | 13.24A | 13.30A | 13.42A | 13.52A |
| Open-circuit voltage (Voc)      | 42.32V | 42.42V | 42.52V | 42.62V | 42.82V |
| Short-circuit current (Isc)     | 13.59A | 13.90A | 13.96A | 14.09A | 14.20A |

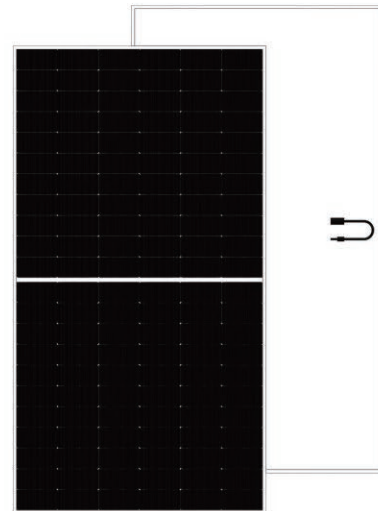
STC: 辐照度1000W/m<sup>2</sup>; AM 1.5; 环境温度: 25°C; 依据EN60904-3测试;  
(STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5)  
NMOT: 辐照度800W/m<sup>2</sup>; 风速1m/s; 环境温度20°C;  
(STC: Irradiance 1000W/m<sup>2</sup>, wind speed: 1m/s, Module temperature 20°C)  
Pm的公差0~+5W;  
(Tolerance of Pm: 0~+5W)

## Mechanical Parameters

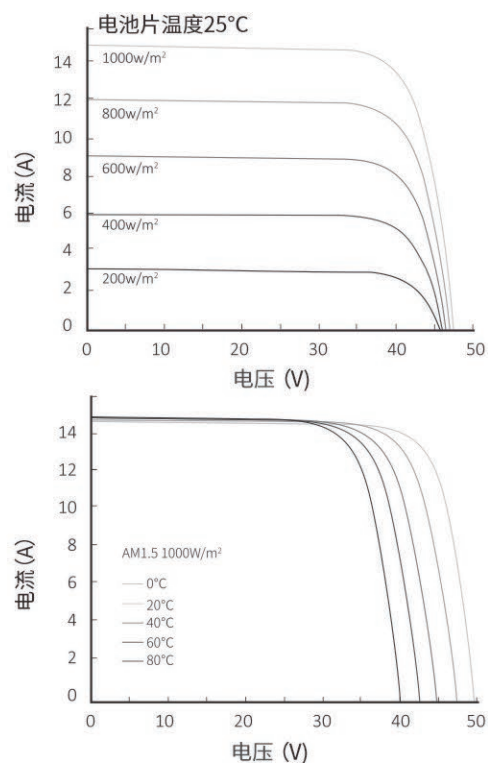
|                         |                                                                |
|-------------------------|----------------------------------------------------------------|
| Cell                    | N Type Mono-crystalline silicon solar cells                    |
| Cell Size               | 182*91                                                         |
| Cell Quantity           | 126Pcs (6*21)                                                  |
| Dimension of module     | 2000mm×1134mm×30mm                                             |
| Weight                  | 24.5kg                                                         |
| Junction Box            | Separated Junction Box with 3 diodes                           |
| Output Cables           | 4mm <sup>2</sup>                                               |
| Max. Static LDS (Front) | 5400kpa                                                        |
| Max. Static LDS (Back)  | 2400kpa                                                        |
| Hail Test               | Diameter: 25mm, with speed: 23m/s                              |
| Glass                   | 3.2mm                                                          |
| Package                 | 35PCS/Package/Pallet 380PCS/20' GQ (2pcs/carton) 770pcs/40' HQ |
| Protection Grade        | Class II                                                       |
| Fire Protection Class   | IEC Class C                                                    |

## Rated Parameters

|                                               |                    |
|-----------------------------------------------|--------------------|
| Short-circuit current temperature coefficient | (0.065±0.015) %/°C |
| Open-circuit voltage temperature coefficient  | (80±10) mV/°C      |
| Peak power temperature coefficient            | -(0.5±0.05) %/°C   |
| NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)        | 47±2°C             |
| Operating temperature                         | -40°C to 85°C      |
| Maximum system voltage                        | 1500V DC           |
| Power tolerance                               | ±1%                |



## I-V曲线



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**N Type Mono Solar Cell**

# XTL-B144

## 540~560W

- Excellent Outdoor Power Generation Performance
- High Quality Long-term Reliability



12 years' product material and process warranty



25 Years' power output warranty



Wonderful Quality Assurance System& Production Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO 质量管理体系

TUV/CE/CB/CQC等产品认证





## Data sheet under STC Condition

|                                 |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|
| Maximum power at STC (Pmax)     | 540W   | 545W   | 550W   | 555W   | 560W   |
| Optimum operating voltage (Vmp) | 41.65V | 41.80V | 41.95V | 42.10V | 42.25V |
| Optimum operating current (Imp) | 12.97A | 13.04A | 13.12A | 13.19A | 13.26A |
| Open-circuit voltage (Voc)      | 49.50V | 49.65V | 49.80V | 49.95V | 50.10V |
| Short-circuit current (Isc)     | 13.85A | 13.92A | 13.98A | 14.04A | 14.40A |

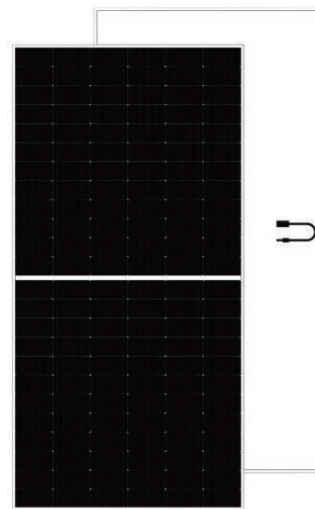
STC: 辐照度1000W/m<sup>2</sup>; AM 1.5; 环境温度: 25°C; 依据EN60904-3测试;  
(STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5)  
NMOT: 辐照度800W/m<sup>2</sup>; 风速1m/s; 环境温度20°C;  
(STC: Irradiance 1000W/m<sup>2</sup>, wind speed: 1m/s, Module temperature 20°C)  
Pm的公差0~+5W;  
(Tolerance of Pm: 0~+5W)

## Mechanical Parameters

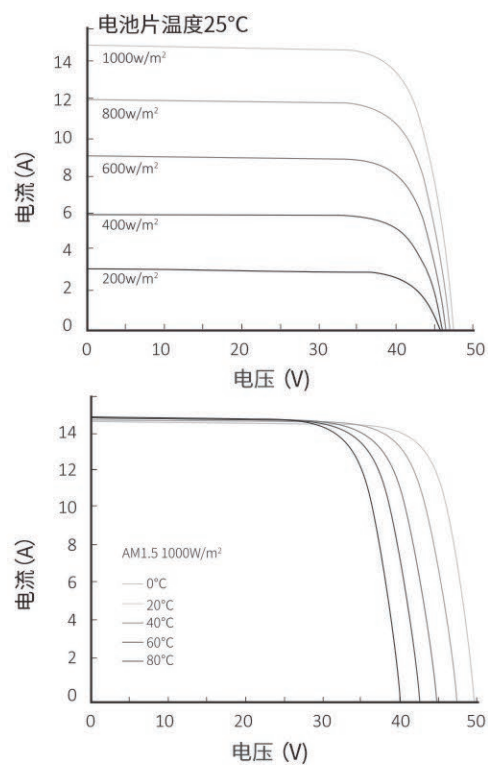
|                         |                                                                |
|-------------------------|----------------------------------------------------------------|
| Cell                    | N Type Mono-crystalline silicon solar cells                    |
| Cell Size               | 182mm*91mm                                                     |
| Cell Quantity           | 144Pcs(6*24)                                                   |
| Dimension of module     | 2279mm×1134mm×30mm                                             |
| Weight                  | 27.5kg                                                         |
| Junction Box            | Separated Junction Box with 3 diodes                           |
| Output Cables           | 4mm <sup>2</sup>                                               |
| Max. Static LDS (Front) | 5400kpa                                                        |
| Max. Static LDS (Back)  | 2400kpa                                                        |
| Hail Test               | Diameter: 25mm, with speed: 23m/s                              |
| Glass                   | 3.2mm                                                          |
| Package                 | 35PCS/Package/Pallet 350PCS/20' GQ (2pcs/carton) 720pcs/40' HQ |
| Protection Grade        | Class II                                                       |
| Fire Protection Class   | IEC Class C                                                    |

## Rated Parameters

|                                               |                    |
|-----------------------------------------------|--------------------|
| Short-circuit current temperature coefficient | (0.065±0.015) %/°C |
| Open-circuit voltage temperature coefficient  | (80±10) mV/°C      |
| Peak power temperature coefficient            | -(0.5±0.05) %/°C   |
| NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)        | 47±2°C             |
| Operating temperature                         | -40°C to 85°C      |
| Maximum system voltage                        | 1500V DC           |
| Power tolerance                               | ±1%                |



## I-V曲线



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## N Type Mono Solar Cell

# XTL-B144

## 550~580W

- Excellent Outdoor Power Generation Performance
- High Quality Long-term Reliability

### Mechanical Parameters



12 years' product material and process warranty



25 Years' power output warranty



Wonderful Quality Assurance System& Production Certification

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ISO9001: 2015: ISO 质量管理体系

TUV/CE/CB/CQC等产品认证





## Data sheet under STC Condition

|                                 |        |        |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Maximum power at STC (Pmax)     | 550W   | 555W   | 560W   | 565W   | 570W   | 575W   | 580W   |
| Optimum operating voltage (Vmp) | 41.95V | 42.10V | 42.25V | 42.91V | 43.00V | 43.11V | 43.22V |
| Optimum operating current (Imp) | 13.12A | 13.19A | 13.26A | 13.17A | 13.26A | 13.34A | 13.42A |
| Open-circuit voltage (Voc)      | 49.80V | 49.95V | 50.10V | 51.09V | 51.19V | 51.30V | 51.41V |
| Short-circuit current (Isc)     | 13.98A | 14.04A | 14.10A | 13.97A | 14.05A | 14.14A | 14.22A |

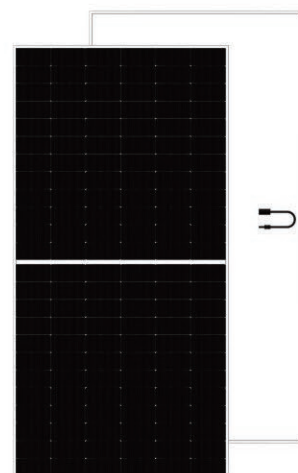
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 Pm的公差0~+5W;  
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## Mechanical Parameters

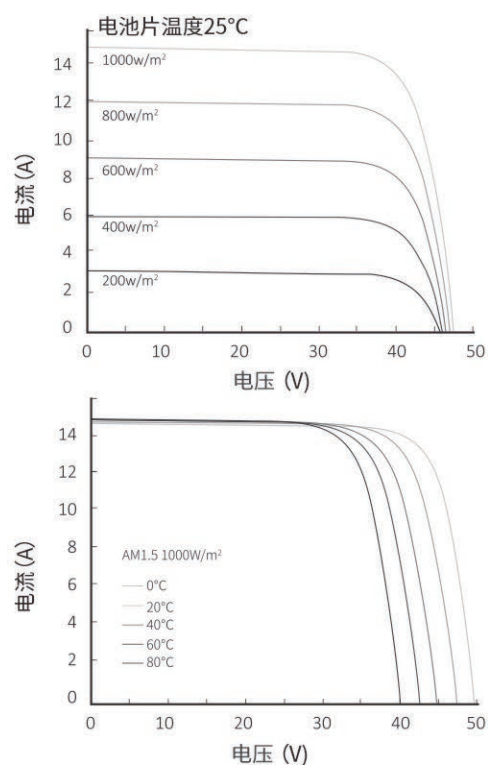
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|-------------------------|----------------------------------------------------------------|
| Cell                    | N Type Mono-crystalline silicon solar cells                    |
| Cell Size               | 182mm*91mm                                                     |
| Cell Quantity           | 144Pcs(6*24)                                                   |
| Dimension of module     | 2279mm×1134mm×30mm                                             |
| Weight                  | 27.5kg                                                         |
| Junction Box            | Separated Junction Box with 3 diodes                           |
| Output Cables           | 4mm <sup>2</sup>                                               |
| Max. Static LDS (Front) | 5400kpa                                                        |
| Max. Static LDS (Back)  | 2400kpa                                                        |
| Hail Test               | Diameter: 25mm, with speed: 23m/s                              |
| Glass                   | 3.2mm                                                          |
| Package                 | 35PCS/Package/Pallet 350PCS/20' GQ (2pcs/carton) 720pcs/40' HQ |
| Protection Grade        | Class II                                                       |
| Fire Protection Class   | IEC Class C                                                    |

## Rated Parameters

|                                               |                    |
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| Peak power temperature coefficient            | -(0.5±0.05) %/°C   |
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