

# Limited Warranty for JA Solar Brand Crystalline Solar PV Modules

This Limited Warranty for JA Solar Brand Crystalline Solar PV Modules (hereinafter referred to as “**Limited Warranty**”) is issued by JA Solar Co., Ltd., which is headquartered at Building No.8, Noble Center, Automobile Museum East Road, Fengtai District, Beijing, China (100160), or its legal successors or assigns (hereinafter collectively referred to as “**JA Solar**”), and applies exclusively to Modules (as defined in Section 1 hereof).

## 1. Definition of Modules:

**Modules** are defined in this Limited Warranty as photovoltaic solar modules manufactured by JA Solar or its authorized manufacturers, legitimately bearing “JA Solar” brand, that are of the following product types:

Mono-crystalline single glass products:

JAM60S XX -XXX / XX; JAM72S XX -XXX / XX ;

Mono-crystalline double glass products:

JAM60 DXX -XXX / XX; JAM72 DXX -XXX / XX ;

Poly-crystalline single glass products:

JAP 60 SXX -XXX / XX; JAP 72SXX -XXX / XX ;

Poly-crystalline double glass products:

JAP60 DXX -XXX / XX; JAP 72DXX -XXX / XX ;

Note: “X” represents different types of product under different power class.

## 2. Effective Date, Beneficiary and Warranty Start Date:

2.1 This Limited Warranty takes effect on [1st] [Apr], **2019** (hereinafter referred to as “**Effective Date**”) and applies to Modules first sold after the Effective Date (the date of sale shall be the date indicated in the contracts for the supply of the relevant Modules signed by JA Solar and its affiliates that sold the Modules). Modules sold before the Effective Date is still subject to the Limited Warranty applicable at the time of sale. This version of the Limited Warranty shall remain in effect for the duration of the

Limited Product Warranty Period and Limited Peak Power Warranty Period for the applicable Modules covered.

2.2 The sole and exclusive beneficiary of this Limited Warranty is the initial end customer who purchases Modules directly or indirectly from JA Solar or from any one of its authorized manufacturers or distributors or from any other legitimate source, and is the initial owner of such Modules (hereinafter referred to as “**Customer**”), and any of such Customer's permitted successors or assigns under Section 7. Upon JA Solar's written request, Customer shall confirm ownership of the Modules.

2.3 The term of this Limited Warranty starts from the earlier of: (i) the date of initial delivery to the Customer by JA Solar or its authorized manufacturer, or (ii) six (6) calendar months after Modules dispatch from the JA Solar factory as indicated by the serial numbers for such Modules (hereinafter referred to as “**Warranty Start Date**”).

## 3. Limited Warranty:

### 3.1 Limited Product Warranty:

Subject to the terms and conditions of this Limited Warranty, JA Solar warrants to the Customer for a period of one hundred and forty-four (144) calendar months following the Warranty Start Date (hereinafter referred to as “**Limited Product Warranty Period**”) that the Modules (together with the factory-assembled DC connectors and cables), when installed, used, and serviced under normal operating conditions and in accordance with the JA Solar module installation manual, product technical specifications and maintenance manual (which, if not provided in the supply contract, can be downloaded from JA Solar' official website at [www.jasolar.com](http://www.jasolar.com)) will:

- 1) be free from any defects in design, materials, workmanship or manufacturing that have a negative effect on the functioning of the Modules; and,

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- 2) Comply with the design and technical specifications in the product technical specifications related to the Modules.  
(Hereinafter referred to as “**Limited Product Warranty**”).

The Limited Product Warranty does not cover any changes in appearance (including but not limited to color changes) and normal wear and tear (including but not limited to scratches, contamination, mechanical wear, rust, mildew and other forms of natural wear and tear) that occur after the delivery or installation of the Modules. The Limited Product Warranty does not warrant a specific power output or performance of any Modules, which shall be exclusively covered under Section 3.2 below.

### 3.2 Limited Peak Power Warranty

Subject to the terms and conditions of this Limited Warranty, JA Solar provides to the Customer a Limited Peak Power Warranty with a term of 25 years for single glass Modules or 30 years for double glass Modules from the Warranty Start Date (“**Limited Peak Power Warranty Period**”):

- 1) for mono-crystalline single glass Modules (whose product types are: JAM60S XX -XXX/XX; JAM72S XX -XXX/XX): the Degradation Rate shall not exceed 2.5% in the first year beginning from the Warranty Start Date, and an additional 0.6% each year thereafter from the beginning of the second year until that date which is twenty-five (25) years following the Warranty Start Date, at which time the Peak Power Output shall be not less than 83.1% of the Nominal Power Output;
- 2) for poly-crystalline single glass Modules (whose product types are: JAP60SXX-XXX/XX; JAP72SXX-XXX/XX): the Degradation Rate shall not exceed 2.5% in the first year beginning from the Warranty Start Date, and an additional 0.7% each year thereafter from the beginning of the second year until that date which is twenty-five

- (25) years following the Warranty Start Date, at which time the Peak Power Output shall be not less than 80.7% of the Nominal Power Output;
- 3) for mono-crystalline double glass Modules (whose product types are: JAM60DXX-XXX/XX ; JAM72DXX-XXX/XX): the Degradation Rate shall not exceed 2.5% in the first year beginning from the Warranty Start Date, and an additional 0.5% each year thereafter from the beginning of the second year until that date which is thirty (30) years following the Warranty Start Date, at which time the Peak Power Output shall be not less than 83% of the Nominal Power Output; and,
- 4) for poly-crystalline double glass Modules (whose product types are: JAP60DXX-XXX/XX; JAP72DXX-XXX/XX): the Degradation Rate shall not exceed 2.5% in the first year beginning from the Warranty Start Date, and an additional 0.5% each year thereafter from the beginning of the second year until that date which is thirty (30) years following the Warranty Start Date, at which time the Peak Power Output shall be not less than 83% of the Nominal Power Output.  
(Hereinafter referred to as “**Limited Peak Power Warranty**”)

Note: “X” represents different types of product under different power class.

For the avoidance of doubt, unless otherwise specified in this Limited Warranty, the terms used in the Limited Peak Power Warranty shall have the following meanings:

“**Nominal Power Output**” means the power output measured for the Modules under the Standard Test Conditions, as indicated on its original nameplate, excluding any positive tolerance that may exist in the Modules.

“**Standard Test Conditions**” or “**STC**”: (a) light spectrum of AM 1.5; (b) an irradiation of 1000W per square meter; and (c) a cell temperature of 25 degrees centigrade at right angle irradiation. The measurements are carried out in