JA smart modules incorporate innovative power electronics from Tigo Energy to achieve module-level diagnostics, maximum energy harvest through module-level DC power optimization, and reduction of arc, fire and safety hazards. Integration of the module optimizer into the junction box enables patented Smart Curve technology, which allows up to 30% longer strings and significant balance-of-system (BOS) savings.

**375W PERC Smart Module**  
JAM72S04 355-375/PR

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**Introduction**

JA smart modules incorporate innovative power electronics from Tigo Energy to achieve module-level diagnostics, maximum energy harvest through module-level DC power optimization, and reduction of arc, fire and safety hazards. Integration of the module optimizer into the junction box enables patented Smart Curve technology, which allows up to 30% longer strings and significant balance-of-system (BOS) savings.

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**Safer solar**

**More efficient O&M**

**Flexible system assembly**

**Maximized energy Harvest**

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**Superior Warranty**

- 12-year product warranty
- 25-year linear power output warranty

**Comprehensive Certificates**

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems

Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.
**SYSTEM ARCHITECTURE**

JA smart system components work together with any inverter to maximize energy harvest. JA smart modules communicate wirelessly through the gateway, allowing users to monitor system performance in real-time.

**SMART CURVE TECHNOLOGY**

Module-integrated smart technology reduces the open circuit voltage range for each module and allows longer strings to be designed. The maximum voltage is programmed by JA Solar in the factory.

- Hardware voltage clamp prevents over-voltage
- Design up to 30% longer strings
- Fewer combiner boxes, fuses and wiring
- Smaller resistance losses

**ELECTRICAL PARAMETERS AT NOCT**

![Current-Voltage Curve](image)

**ELECTRICAL PARAMETERS AT STC**

![Current-Voltage Curve](image)

**OPERATING CONDITIONS**

<table>
<thead>
<tr>
<th>Type</th>
<th>JAM72S04 -355/PR</th>
<th>JAM72S04 -360/PR</th>
<th>JAM72S04 -365/PR</th>
<th>JAM72S04 -370/PR</th>
<th>JAM72S04 -375/PR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Maximum Power (Pmax) [W]</td>
<td>355</td>
<td>360</td>
<td>365</td>
<td>370</td>
<td>375</td>
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<tr>
<td>Open Circuit Voltage (Voc) [V]</td>
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<td>44.01</td>
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<tr>
<td>Maximum Power Voltage (Vmp) [V]</td>
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<td>38.96</td>
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<tr>
<td>Module Efficiency [%]</td>
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<td>18.5</td>
<td>18.8</td>
<td>19.0</td>
<td>19.3</td>
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<td>Temperature Tolerance</td>
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<td>Temperature Coefficient of Isc (α_Isc)</td>
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<tr>
<td>Temperature Coefficient of Voc (β_Voc)</td>
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<tr>
<td>Temperature Coefficient of Pmax (γ_Pmax)</td>
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<td>Irradiance</td>
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</tbody>
</table>

**SPECIFICATIONS**

- Cell: Mono
- Weight: 22.5kg±3%
- Dimensions: 1980mm×991mm×40mm
- Cable Cross Section Size: 4mm²
- No. of cells: 72(6×12)
- Junction Box: Tigo smart J-Box IP67
- Connector: Genuine MC4
- Country of Manufacturer: China/Vietnam

**CURRENT-VOLTAGE CURVE**

- JAM72S04 -355/PR
- JAM72S04 -360/PR
- JAM72S04 -365/PR
- JAM72S04 -370/PR
- JAM72S04 -375/PR

**CHARACTERISTICS**

- Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

**MECHANICAL DIAGRAMS**

**PERSONALIZED FRAME COLOR AND CABLE LENGTH AVAILABLE UPON REQUEST**