

# 585W MBB

**LR**  
Series

Higher output power



Lower LCOE



Less shading and lower resistive loss



Better mechanical loading tolerance



12-year product warranty



25-year linear power output warranty

## Half-cell Module JAM72S30 LR 560-585

### Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing

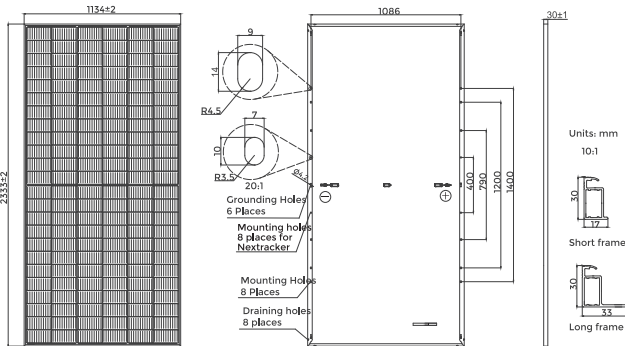




## 585W MBB

**560-585**  
JAM72S30

**LR**  
Series



Remark: customized frame color and cable length available upon request

|                                       |                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| Cell                                  | Mono                                                                                          |
| Weight                                | 28kg                                                                                          |
| Dimensions                            | 2333±2mm×1134±2mm×30±1mm                                                                      |
| Cable Cross Section Size              | 4mm <sup>2</sup> (IEC) , 12 AWG(UL)                                                           |
| No. of cells                          | 144(6x24)                                                                                     |
| Junction Box                          | IP68, 3 diodes                                                                                |
| Connector                             | QC 4.10-351/ MC4-EVO2A                                                                        |
| Cable Length<br>(Including Connector) | Portrait: 300mm(+)/400mm(-);<br>800mm(+)/800mm(-)(Leapfrog)<br>Landscape: 1400mm(+)/1400mm(-) |
| Front Glass                           | 3.2mm                                                                                         |
| Packaging Configuration               | 36pcs/Pallet, 720pcs/40ft Container                                                           |

## ELECTRICAL PARAMETERS AT STC

| TYPE                                                            | JAM72S30<br>-560/LR                                              | JAM72S30<br>-565/LR | JAM72S30<br>-570/LR | JAM72S30<br>-575/LR | JAM72S30<br>-580/LR | JAM72S30<br>-585/LR |
|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(P <sub>max</sub> ) [W]                      | 560                                                              | 565                 | 570                 | 575                 | 580                 | 585                 |
| Open Circuit Voltage(V <sub>oc</sub> ) [V]                      | 49.59                                                            | 49.77               | 49.95               | 50.13               | 50.31               | 50.49               |
| Maximum Power Voltage(V <sub>mp</sub> ) [V]                     | 41.49                                                            | 41.68               | 41.87               | 42.05               | 42.24               | 42.42               |
| Short Circuit Current(I <sub>sc</sub> ) [A]                     | 14.25                                                            | 14.31               | 14.37               | 14.44               | 14.50               | 14.56               |
| Maximum Power Current(I <sub>mp</sub> ) [A]                     | 13.50                                                            | 13.56               | 13.62               | 13.67               | 13.73               | 13.79               |
| Module Efficiency [%]                                           | 21.2                                                             | 21.4                | 21.5                | 21.7                | 21.9                | 22.1                |
| Power Tolerance                                                 | 0~+5W                                                            |                     |                     |                     |                     |                     |
| Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )  | +0.045%/ °C                                                      |                     |                     |                     |                     |                     |
| Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )  | -0.275%/ °C                                                      |                     |                     |                     |                     |                     |
| Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> ) | -0.350%/ °C                                                      |                     |                     |                     |                     |                     |
| STC                                                             | Irradiance 1000W/m <sup>2</sup> , cell temperature 25 °C, AM1.5G |                     |                     |                     |                     |                     |

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

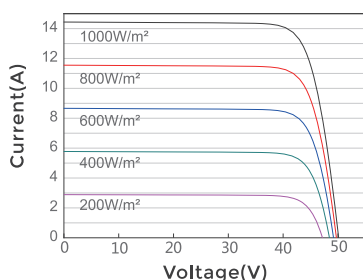
## ELECTRICAL PARAMETERS AT NOCT

| TYPE                                        | JAM72S30<br>-560/LR                                                                 | JAM72S30<br>-565/LR | JAM72S30<br>-570/LR | JAM72S30<br>-575/LR | JAM72S30<br>-580/LR | JAM72S30<br>-585/LR |
|---------------------------------------------|-------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Max Power(P <sub>max</sub> ) [W]      | 424                                                                                 | 428                 | 431                 | 435                 | 439                 | 443                 |
| Open Circuit Voltage(V <sub>oc</sub> ) [V]  | 46.92                                                                               | 47.09               | 47.27               | 47.44               | 47.61               | 47.78               |
| Max Power Voltage(V <sub>mp</sub> ) [V]     | 39.26                                                                               | 39.44               | 39.62               | 39.79               | 39.97               | 40.14               |
| Short Circuit Current(I <sub>sc</sub> ) [A] | 11.40                                                                               | 11.45               | 11.50               | 11.55               | 11.60               | 11.65               |
| Max Power Current(I <sub>mp</sub> ) [A]     | 10.80                                                                               | 10.85               | 10.89               | 10.94               | 10.99               | 11.03               |
| NOCT                                        | Irradiance 800W/m <sup>2</sup> , ambient temperature 20 °C, wind speed 1m/s, AM1.5G |                     |                     |                     |                     |                     |

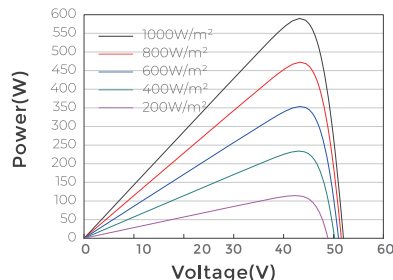
\*For NexTracker installations, maximum static load please take compatibility approve letter between JA Solar and NexTracker for reference.

## CHARACTERISTICS

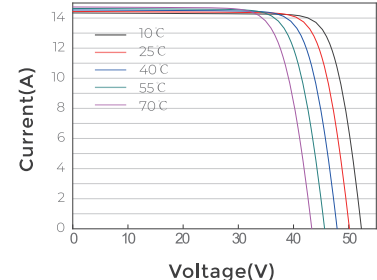
Current-Voltage Curve JAM72S30-575/LR



Power-Voltage Curve JAM72S30-575/LR

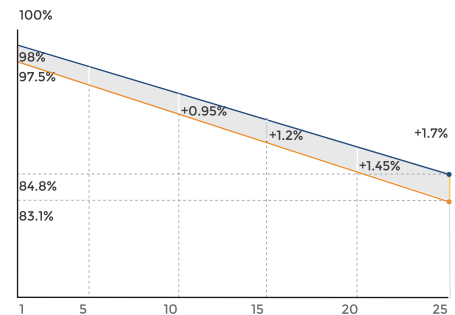


Current-Voltage Curve JAM72S30-575/LR



## SUPERIOR WARRANTY

0.55% Annual Degradation Over 25 years



- New linear power warranty
- Standard module linear power warranty

## OPERATING CONDITIONS

|                             |                                |
|-----------------------------|--------------------------------|
| Maximum System Voltage      | 1000V/1500V DC                 |
| Operating Temperature       | -40°C~+85°C                    |
| Maximum Series Fuse Rating  | 25A                            |
| Maximum Static Load, Front* | 5400Pa(112lb/ft <sup>2</sup> ) |
| Maximum Static Load, Back*  | 2400Pa(50lb/ft <sup>2</sup> )  |
| NOCT                        | 45±2°C                         |
| Safety Class                | Class II                       |
| Fire Performance            | UL Type 1                      |