



PV module - JAM66D42-580/MB

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|-------------------------------|------------------------------|--|---------------------|
| Manufacturer | JA Solar | Commercial data | |
| Model | JAM66D42-580/MB | Availability : | Prod. Since 2021 |
| | | Data source : | JA internal |
| Pnom STC power (manufacturer) | 580 W _p | Technology | Si-mono |
| Module size (W x L) | 1.134 x 2.278 m ² | Rough module area (A _{module}) | 2.58 m ² |
| Number of cells | 2 x 66 | Sensitive area (cells) (A _{cells}) | 2.37 m ² |

Specifications for the model (manufacturer or measurement data)

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|--|---------|---|-----------------------|
| Reference temperature (T _{Ref}) | 25 °C | Reference irradiance (G _{Ref}) | 1000 W/m ² |
| Open circuit voltage (V _{oc}) | 48.2 V | Short-circuit current (I _{sc}) | 15.21 A |
| Max. power point voltage (V _{mpp}) | 40.4 V | Max. power point current (I _{mpp}) | 14.35 A |
| => maximum power (P _{mpp}) | 580.0 W | Isc temperature coefficient (μI _{sc}) | 6.4 mA/°C |

One-diode model parameters

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|---|------------|---|------------|
| Shunt resistance (R _{shunt}) | 400 Ω | Diode saturation current (I _{oRef}) | 0.018 nA |
| Serie resistance (R _{serie}) | 0.17 Ω | Voc temp. coefficient (μV _{oc}) | -115 mV/°C |
| Specified P _{max} temper. coeff. (μP _{MaxR}) | -0.29 %/°C | Diode quality factor (Gamma) | 1.04 |
| | | Diode factor temper. coeff. (μGamma) | 0.000 1/°C |

Reverse Bias Parameters, for use in behaviour of PV arrays under partial shadings or mismatch

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| Reverse characteristics (dark) (B _{Rev}) | 3.20 mA/V ² | (quadratic factor (per cell)) | |
| Number of by-pass diodes per module | 3 | Direct voltage of by-pass diodes | -0.7V |

Model results for standard conditions (STC: T=25 ° C, G=1000 W/m² , AM=1.5)

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|--|----------------------|--|------------|
| Max. power point voltage (V _{mpp}) | 40.1 V | Max. power point current (I _{mpp}) | 14.52 A |
| Maximum power (P _{mpp}) | 580.3 W _p | Power temper. coefficient (μP _{mpp}) | -0.29 %/°C |
| Efficiency(/ Module area) (Eff _{mod}) | 22.5 % | Fill factor (FF) | 0.792 |
| Efficiency(/ Cells area) (Eff _{cells}) | 24.5 % | | |

