PHOTOVOLTAIC MODULE

JJ-M636



Features

- · High efficiency multi crystaline silicon solar cells.
- · High transmission textured toughened glass.
- Module as per IEC-61215(2005); IEC-61730 part 1 & 2. IEC-61701 Salt Mist Test.
- Suitable for off-grid & grid connected systems.
- · Narrow power tolerance for minimizing losses due to module power mismatch in an array.
- High quality screwless anodized aluminum frame to provide structural strength to the Laminate.
- TUV approved, IP65 rated 3 terminal junction box with 2 by-pass diodes (15A) for quick & safe installation.
- Bypass diodes to reduce the effect of partial shading of modules.
- Preassembled cable of length 1000 mm each with MC4 type +Ve and –Ve connectors.
- Manufacturing facility certified to ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007 and EN ISO 50001:2011.

Typical Electrical Characteristics*

Module Type	JJ-M636		
Maximum Power [Pm(Wp)]	140	145	150
Power tolerance [Wp]	+ 4.99	+ 4.99	+ 4.99
Maximum Power Voltage [V _{mp} (V)]	17.12	17.54	18.06
Maximum Power Current [I _{mp} (A)]	8.18	8.27	8.31
Open Circuit Voltage [V _∞ (V)]	22.08	22.27	22.64
Short Circuit Current [I _{sc} (A)]	8.53	8.70	8.77
Module Efficiency [%]	14.46	14.98	15.49

^{*}All electrical measurment are at \$TC (25°C, 1.5AM, 1000W/m²).

Thermal Characteristics

Temperature coefficient of P _{max}	-0.43%/°K
Temperature coefficient of I _{sc}	0.046%/°K
Temperature coefficient of V _{oc}	-0.33%/°K
NOCT	45 <u>+</u> 2 °C



^{*}Best in Class A Solar Sun simulator. (As per IEC 60904-9)

Mechanical Characteristics

Front Cover	Low Iron tempered glass	
Solar Cells (Quantity/type/ arrangement/size)	36 pcs/Multicrystalline/4 x 9/156mm x 156mm	
Junction Box	TUV approved, IP65 rated 3 terminal junction box with 2by-pass diodes (15 A)	
Cable (length/size)	1000 mm/ 4.0mm ²	
Connectors	MC4 type +Ve and –Ve	
Dimensions (LxWxH)	1478 mm x 655 mm x 35 mm (± 1 mm)	
Weight	12 kg approximate	

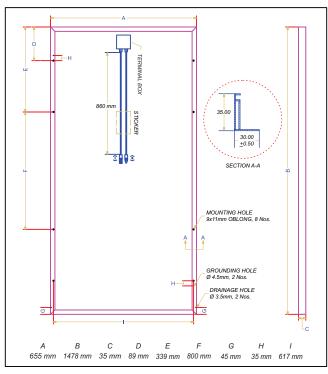
Operating Conditions

Max. System Voltage	1000 VDC	
Safety Class	II	
Maximum Series fuse	15A	
Operating Temperature	-40°C to +85°C	

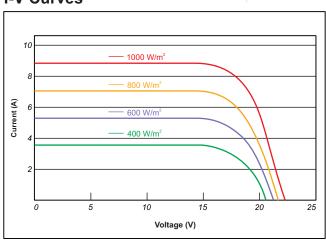
Warranty

- · Manufacturing defect & workmanship: 5 Years
- Power Production (Limited Warranty): 90% for 10 years & 80% for 25 years
- In compliance with our warranty terms and conditions. Contact Jain Irrigation System Ltd. for complete warranty details.
- For any kind of technical or design support, you may contact Jain Irrigation System Ltd.

Module dimensions



I-V Curves



Positive power tolerance system applied while categorizing the module in various powers ranges.

^{*}Above Specifications are subject to change without prior notice. The specifications may vary slightly