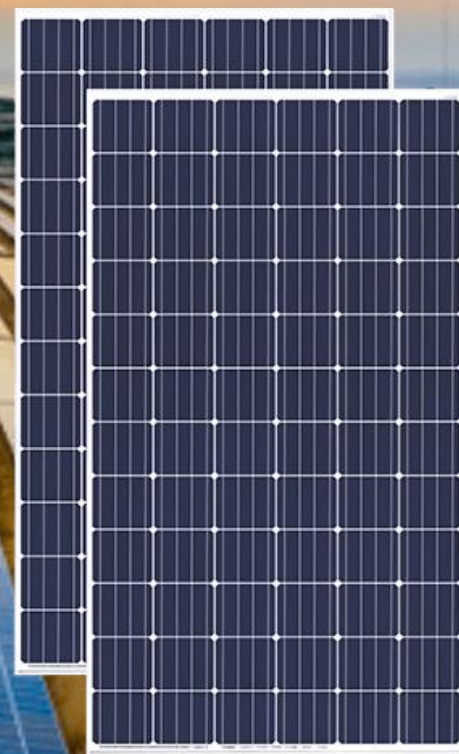




Emmvee Photovoltaic Modules



YOUR RELIABLE
PARTNER FOR
SOLAR ENERGY
SINCE 1992



Contents

- Emmvee Profile
- Emmvee-Vision & Mission
- Emmvee PV Module track record
- Emmvee Product Range
- Certifications
- Our Commissioned projects
- Achievements
- Awards & Accolades



Company Profile Emmvee Group 30 years of excellence

Established in 1992

- 900 People
- PV Module Manufacturing
- Solar Water Heater Manufacturing
- Project Development
- EPC Project Installation
- Rooftop Solution
- Solar Water Pumping Solution





Vision

As one of the leading solar energy companies, our vision is to make every individual and organization, energy independent by providing highly qualitative, innovative, cost-effective premium solar products and solutions that provide clean, reliable and sustainable energy around the world.

Mission

Consistency, secure execution and installation of our projects every time that ensures growth in our photovoltaic modules and hot-water systems. Keeping an open mind to endorse new-age technology and make improvements in our product range in a way that is intact with our values and care for our environment, community, customers and our stakeholders.



Emmvee Manufacturing Facilities

From a single line of business, Emmvee Group has transformed itself into a well-diversified group with a strong foothold in Solar Photovoltaic, Solar Water Heating Systems and Solar Water Pump.



Emmvee Photovoltaic Power Pvt Ltd Unit 1

- 500 MW Production Capacity
- Air-conditioned Facility with 8,000 Sqm
- Located in Airport Road, Bengaluru



Emmvee Photovoltaic Power Pvt Ltd Unit 2

- 750 MW Production Capacity
- Air-conditioned Facility with 20,000 Sqm
- Located in Dabaspeta, Bengaluru

Emmvee Group An Overview

- Head Quarter's - Bengaluru, India
- International Office - Berlin, Germany
- PV module manufacturing Production capacity 1250 MW
being extended to 3GW
- Solar cell manufacturing Production capacity 1.5 GW by 2024
- Project Development, EPC and Rooftop solution
- Production Area covered 28000 Sqm





Emmvee Photovoltaic Modules

30
YEARS.
POWER
FOR GOOD

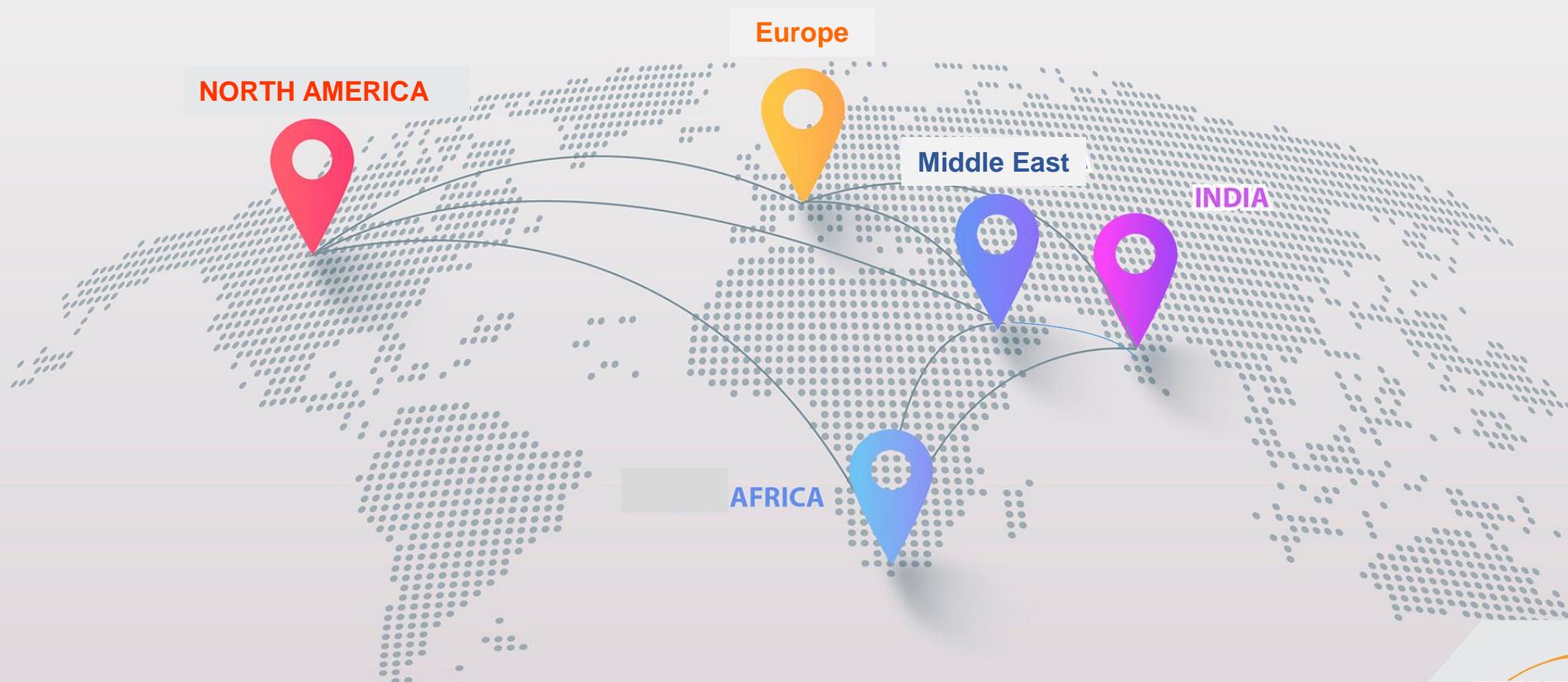
Manufacturing and Sales Companies



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PV Modules globally supplied more than 2GW



PV module manufacturing expansion

Production capacity 1250MW being extended to 3GW



Module and Cell Production capacity road map

- Presently - 1.25GW Module
- 2023 - 3GW Module
- 2024 - 3GW Module & 1.5GW Cell Line





PV module manufacturing expansion Production capacity 1250MW being extended to 3GW





Emmvee Photovoltaic Modules



PRODUCT RANGE

Premium Photovoltaic Module



YOUR RELIABLE
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SOLAR ENERGY
SINCE 1992

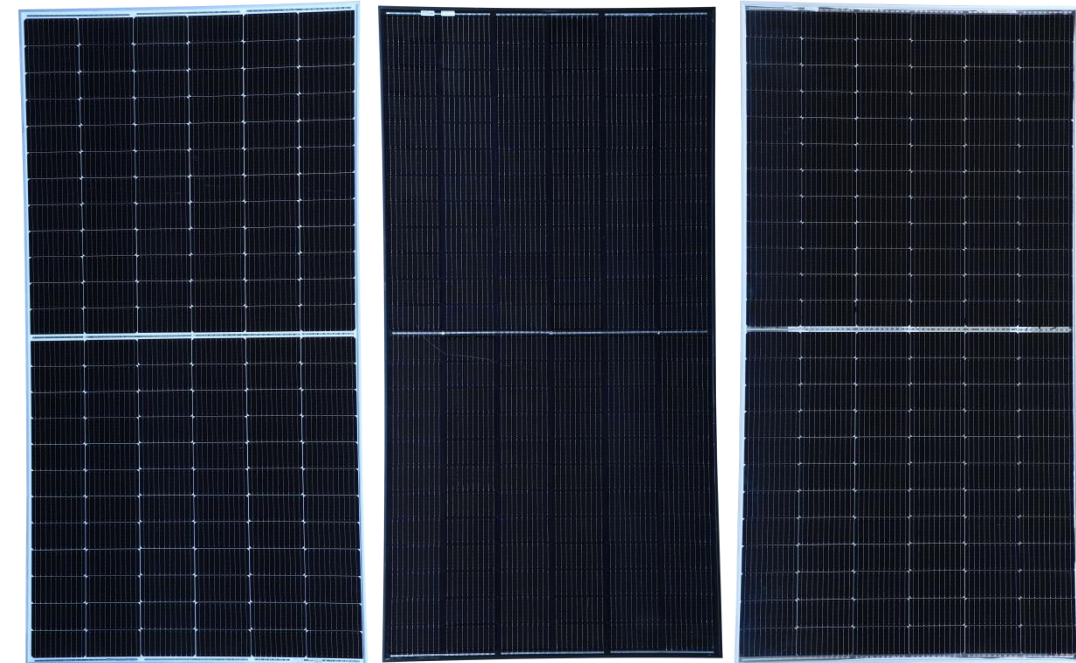


PV Modules - Mono Perc, Multi, Monofacial & Bifacial

Emmvee Solar PV Modules are the best for On - Grid solar power plants. Our modules are built to withstand extreme harsh weather conditions and sustain for more than 30 years.

Features

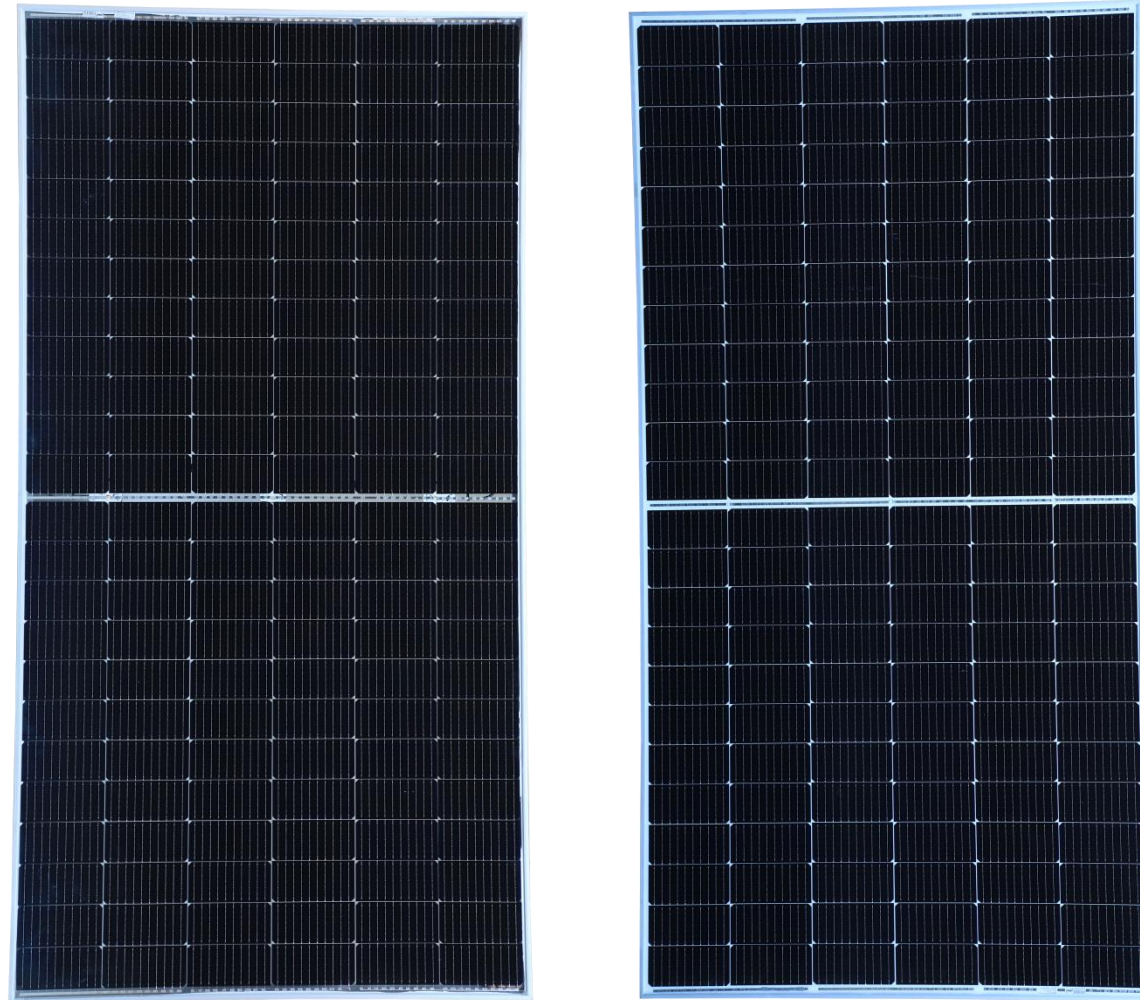
- High reliability with guaranteed +5Wp power output tolerance, ensuring ROI
- Withstands high wind-pressure and snow load (passed 5400 Pa mechanical loading test), and extreme temperature variations
- We are now offering 540Wp and 545Wp & will be offering 680Wp in near future.
- 12 Years Product warranty & 25/30 years Linear Power warranty
- 108/120/144 multi/mono PERC/bifacial solar cells with multi busbars







PV Module - Mono-facial and Bi-facial


Upto
545WP



Certifications - IEC


Zertifikat	Certificate	TÜVRheinland
Zertifikat Nr. Certificate No. Blatt Sheet PV 60165052 0001	Ihr Zeichen Client Reference Unser Zeichen Our Reference Ausstellungsdatum Date of Issue 0002-G.P-IN22ROYN 001 08.08.2022 (day/month/year)	
<p>Genehmigungsinhaber License Holder EMMVEE Photovoltaic Power Private Ltd. "Solar Tower" #55, 6th Main 11th Cross, Lakshmaiah Block Bangalore - Ganganagar 560024 India</p> <p>Fertigungsstätte Manufacturing Plant Refer to latest revision of the annex list of factories</p>		
<p>Prüfzeichen Test Mark  IEC 61215 IEC 61730 Regular Production Surveillance www.tuv.com ID 1111219603</p> <p>Gepprüft nach Tested acc. to IEC 61215-1:2021 IEC 61215-1-1:2021 IEC 61215-2:2021 IEC 61730-1:2016 IEC 61730-2:2016</p>		
<p>Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)</p> <p>Lizenzentgelte - Einheit License Fee - Unit</p> <p>PV Module</p> <p>Type: "Pearl Series" with monocrystalline half cut cells: ExxxHCMW144 (xxx=530-545 in steps of 1, 144 cells) ExxxHCMW120 (xxx=440-450 in steps of 1, 120 cells) ExxxHCMW108 (xxx=395-410 in steps of 1, 108 cells)</p> <p>"Sapphire Series" with mono bifacial half cut cells: ExxxHCBG144 (xxx=530-545 in steps of 1, 144 cells) ExxxHCBG120 (xxx=440-450 in steps of 1, 120 cells) ExxxHCBG108 (xxx=395-405 in steps of 1, 108 cells)</p> <p>xxx represents output power in Wp</p> <p>Remarks: Class II acc. to IEC 61140 Max. System Voltage: 1500 VDC (Voc at STC) Max. positive Design Load (downward): 3600 Pa Max. negative Design Load (upward): 1600 Pa with safety factor 1.5 Additional applicable test standards see page 3.</p> <p>continued on page 2</p>		
<p>Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den u.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.</p> <p>TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg http://www.tuv.com/safety E-Mail: markcheck@tuv.com Fax: +49 221 806-3935</p> <p>Zert Dipl</p>		

Zertifikat	Certificate	TÜVRheinland
Zertifikat Nr. Certificate No. Blatt Sheet PV 60165052 0002	Ihr Zeichen Client Reference Unser Zeichen Our Reference Ausstellungsdatum Date of Issue 0002-G.P-IN22ROYN 001 08.08.2022 (day/month/year)	
<p>Genehmigungsinhaber License Holder EMMVEE Photovoltaic Power Private Ltd. "Solar Tower" #55, 6th Main 11th Cross, Lakshmaiah Block Bangalore - Ganganagar 560024 India</p> <p>Fertigungsstätte Manufacturing Plant Refer to latest revision of the annex list of factories</p>		
<p>Prüfzeichen Test Mark  IEC 61215 IEC 61730 Regular Production Surveillance www.tuv.com ID 1111219603</p> <p>Gepprüft nach Tested acc. to IEC 61215-1:2021 IEC 61215-1-1:2021 IEC 61215-2:2021 IEC 61730-1:2016 IEC 61730-2:2016</p>		
<p>Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)</p> <p>Lizenzentgelte - Einheit License Fee - Unit</p> <p>PV Module</p> <p>Type: "Quartz Series" with mono bifacial half cut cells: ExxxHCBT144 (xxx=530-545 in steps of 1, 144 cells) ExxxHCBT120 (xxx=440-450 in steps of 1, 120 cells) ExxxHCBT108 (xxx=395-400 in steps of 1, 108 cells)</p> <p>"Graphite Series" with monocrystalline half cut cells: ExxxHCM144-B (xxx=520-530 in steps of 1, 144 cells) ExxxHCM120-B (xxx=430-445 in steps of 1, 120 cells) ExxxHCM108-B (xxx=385-400 in steps of 1, 108 cells)</p> <p>xxx represents output power in Wp</p> <p>Remarks: Class II acc. to IEC 61140 Max. System Voltage: 1500 VDC (Voc at STC) Max. positive Design Load (downward): 3600 Pa Max. negative Design Load (upward): 1600 Pa with safety factor 1.5 Additional applicable test standards see page 3.</p> <p>continued on page 3</p>		
<p>Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den u.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.</p> <p>TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg http://www.tuv.com/safety E-Mail: markcheck@tuv.com Fax: +49 221 806-3935</p> <p>Zert Dipl</p>		


Zertifikat	Certificate	TÜVRheinland
Zertifikat Nr. Certificate No. Blatt Sheet PV 60141604 0003	Ihr Zeichen Client Reference Unser Zeichen Our Reference Ausstellungsdatum Date of Issue 0001-G.P.-21290525 005 18.08.2022 (day/month/year)	
<p>Genehmigungsinhaber License Holder EMMVEE Photovoltaic Power Private Ltd. "Solar Tower" #55, 6th Main 11th Cross, Lakshmaiah Block Bangalore - Ganganagar 560024 India</p> <p>Fertigungsstätte Manufacturing Plant Refer to latest revision of the annex list of factories</p>		
<p>Prüfzeichen Test Mark  IEC 61215 IEC 61730 Regular Production Surveillance www.tuv.com ID 1111219603</p> <p>Gepprüft nach Tested acc. to IEC 61701:2020 EN IEC 61701:2020</p>		
<p>Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)</p> <p>Lizenzentgelte - Einheit License Fee - Unit</p> <p>PV Module</p> <p>Type: "Pearl Series" with monocrystalline half cut cells: ExxxHCMW144 (xxx=530-545 in steps of 1, 144 cells) ExxxHCMW120 (xxx=440-450 in steps of 1, 120 cells) ExxxHCMW108 (xxx=395-410 in steps of 1, 108 cells)</p> <p>"Sapphire Series" with mono bifacial half cut cells: ExxxHCBG144 (xxx=530-545 in steps of 1, 144 cells) ExxxHCBG120 (xxx=440-450 in steps of 1, 120 cells) ExxxHCBG108 (xxx=395-405 in steps of 1, 108 cells)</p> <p>"Quartz Series" with mono bifacial half cut cells: ExxxHCBT144 (xxx=530-545 in steps of 1, 144 cells) ExxxHCBT120 (xxx=440-450 in steps of 1, 120 cells) ExxxHCBT108 (xxx=395-400 in steps of 1, 108 cells)</p> <p>xxx represent output power in Wp</p> <p>Continued on page 4</p>		
<p>Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den u.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.</p> <p>TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg http://www.tuv.com/safety E-Mail: markcheck@tuv.com Fax: +49 221 806-3935</p> <p>Zert Dipl</p>		

Zertifikat	Certificate	TÜVRheinland
Zertifikat Nr. Certificate No. Blatt Sheet PV 60141604 0004	Ihr Zeichen Client Reference Unser Zeichen Our Reference Ausstellungsdatum Date of Issue 0001-G.P.-21290525 005 18.08.2022 (day/month/year)	
<p>Genehmigungsinhaber License Holder EMMVEE Photovoltaic Power Private Ltd. "Solar Tower" #55, 6th Main 11th Cross, Lakshmaiah Block Bangalore - Ganganagar 560024 India</p> <p>Fertigungsstätte Manufacturing Plant Refer to latest revision of the annex list of factories</p>		
<p>Prüfzeichen Test Mark  IEC 61215 IEC 61730 Regular Production Surveillance www.tuv.com ID 1111219603</p> <p>Gepprüft nach Tested acc. to IEC 61701:2020 EN IEC 61701:2020</p>		
<p>Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)</p> <p>Lizenzentgelte - Einheit License Fee - Unit</p> <p>PV Module</p> <p>Type: "Graphite Series" with monocrystalline half cut cells: ExxxHCM144-B (xxx=520-530 in steps of 1, 144 cells) ExxxHCM120-B (xxx=430-445 in steps of 1, 120 cells) ExxxHCM108-B (xxx=385-400 in steps of 1, 108 cells)</p> <p>xxx represent output power in Wp</p> <p>Remarks: Valid in conjunction with TÜV Rheinland certificate acc. to IEC/EN 61215, IEC/EN 61730 and only for the material combination as listed in the above mentioned test report. Test performed with severity 6 of 6.</p> <p>Conditions: The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval. Accordingly the repetition of the tests that are basis of this certificate may be required.</p> <p>This certificate is valid until 16 July 2024.</p>		
<p>Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den u.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.</p> <p>TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg http://www.tuv.com/safety E-Mail: markcheck@tuv.com Fax: +49 221 806-3935</p> <p>Zertifi Dipl-h</p>		

Certifications – UL, CSA & CEC

Certificate		SolarPTL
Certificate no.	TU 722140006 04	
License Holder: EMMVEE Photovoltaic Power Private Ltd. "Solar Tower" # 56, 6 th main, 11 th Cross, Lakshmaiah Block Ganganagar, Bangalore – 560024, India	Manufacturing Plant(s): Refer to the latest revision of the List of Factories (Appendix 2).	
Test report no.: USA-321440002.006	Client Reference: Mr. Srinath.T	
Tested to: UL 61215-1:2017, UL 61215-1-1:2017, UL 61215-2:2017, UL 61730-1:2017, UL 61730-2:2017		
Certified Product: Photovoltaic (PV) Modules		
Model Designations: <u>Pearl Series with Monocrystalline-Si Half cut cells with White Back sheet</u> ExxxHCMW144 (xxx=530-545 in steps of 1, with 144 cells) ExxxHCMW120 (xxx=440-450 in steps of 1, with 120 cells) ExxxHCMW108 (xxx=395-410 in steps of 1, with 108 cells) <u>Graphite Series with Monocrystalline-Si Half cut cells with Black Back sheet</u> ExxxHCM144-B (xxx=520-530 in steps of 1, with 144 cells) ExxxHCM120-B (xxx=430-445 in steps of 1, with 120 cells) ExxxHCM108-B (xxx=385-400 in steps of 1, with 108 cells)		
Maximum System voltage: 1500 VDC Safety Class: Class II Fire Type: Type 4		
Electrical ratings are provided at Standard Test Conditions (STC), 1000W/m ² , AM1.5 spectrum, 25°C cell temperature.		
Appendices: 1, 1-7 2, 1		
Licensed Test Mark:	Date of Issue:	
	14 September 2022	

SolarPTL, LLC, 1107 W. Fairmont Drive, Tempe, Arizona 85282, Tel (480) 966-1700

Certificate		SolarPTL
Certificate no.	TU 722140006 03	
License Holder: EMMVEE Photovoltaic Power Private Ltd. "Solar Tower" # 56, 6 th main, 11 th Cross, Lakshmaiah Block Ganganagar, Bangalore – 560024, India	Manufacturing Plant(s): Refer to the latest revision of the List of Factories (Appendix 2).	
Test report no.: USA-321440002.005	Client Reference: Mr. Srinath.T	
Tested to: UL 61215-1:2017, UL 61215-1-1:2017, UL 61215-2:2017, UL 61730-1:2017, UL 61730-2:2017		
Certified Product: Photovoltaic (PV) Modules		
Model Designations: <u>With Monocrystalline-Si Full cells with Black Back sheet</u> ExxxM72-B (xxx=370-395 in steps of 1, with 72 cells) ExxxM60-B (xxx=305 in steps of 1, with 60 cells) <u>With Poly Crystalline Full cells with Black Back sheet</u> ExxxP72-B (xxx= 315 -325 in steps of 1 with 72 cells) ExxxP60-B (xxx= 270 with 60 cells) xxx represents output power in Wp.		
Maximum System voltage: 1500 VDC Safety Class: Class II Fire Type: Type 4		
Electrical ratings are provided at Standard Test Conditions (STC), 1000W/m ² , AM1.5 spectrum, 25°C cell temperature.		
Appendices: 1, 1-7 2, 1		
Licensed Test Mark:	Date of Issue:	
	06 September 2022	

SolarPTL, LLC, 1107 W. Fairmont Drive, Tempe, Arizona 85282, Tel (480) 966-1700



Certifications - ISO certified from DNV-GL

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 118871-2012-450-IND-OW Initial certification date: 13, June, 2012 Valid: 25, June, 2017 - 25, June, 2020

This is to certify that the management system of

EMMVEE Photovoltaic Power Private Limited
Survey No. 13/1, International Airport Road, Sonnappannahalli, Bettahalasur Post, Bengaluru - 562 157, Karnataka, India
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Occupational Health and Safety Management System standard:
OHSAS 18001:2007

This certificate is valid for the following scope:
Design and manufacture of solar photovoltaic modules
EPC (Engineering, procurement & construction) and operation & maintenance of:
-Solar photovoltaic lighting systems
-Solar photovoltaic ground mounted & rooftop power plants

Manufacture of solar photovoltaic modules

Place and date:
Chennai, 09, June, 2017

For the issuing office:
DNV GL - Business Assurance
ROSA, No. 10, GST Road, Alandur,
Chennai - 600 016, India

DNV-GL

Management System Representative

DNV-GL

Management System Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
Certification valid until 25 June 2020. Business Assurance No. 118871-2012-450-IND-OW. For further details, see: www.dnvgl.com

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 96152-2013-46-IND-RvA Initial certification date: 05, October, 2012 Valid: 24, June, 2017 - 24, June, 2020

This is to certify that the management system of

EMMVEE Photovoltaic Power Private Limited
Survey No. 13/1, International Airport Road, Sonnappannahalli, Bettahalasur Post, Bengaluru - 562 157, Karnataka, India
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

This certificate is valid for the following scope:
Design and manufacture of solar photovoltaic modules
EPC (Engineering, procurement & construction) and operation & maintenance of:
-Solar photovoltaic lighting systems
-Solar photovoltaic ground mounted & rooftop power plants

Manufacture of solar photovoltaic modules

Place and date:
Chennai, 09, June, 2017

For the issuing office:
DNV GL - Business Assurance
ROSA, No. 10, GST Road, Alandur,
Chennai - 600 016, India

IAF

Management System Representative

DNV-GL

Management System Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
Certification valid until 24 June 2020. Business Assurance No. 96152-2013-46-IND-RvA. For further details, see: www.dnvgl.com

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 118871-2012-450-IND-OW Initial certification date: 13, June, 2012 Valid: 25, June, 2017 - 25, June, 2020

This is to certify that the management system of

EMMVEE Photovoltaic Power Private Limited
Survey No. 13/1, International Airport Road, Sonnappannahalli, Bettahalasur Post, Bengaluru - 562 157, Karnataka, India
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Occupational Health and Safety Management System standard:
OHSAS 18001:2007

This certificate is valid for the following scope:
Design and manufacture of solar photovoltaic modules
EPC (Engineering, procurement & construction) and operation & maintenance of:
-Solar photovoltaic lighting systems
-Solar photovoltaic ground mounted & rooftop power plants

Manufacture of solar photovoltaic modules

Place and date:
Chennai, 09, June, 2017

For the issuing office:
DNV GL - Business Assurance
ROSA, No. 10, GST Road, Alandur,
Chennai - 600 016, India

DNV-GL

Management System Representative

DNV-GL

Management System Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
Certification valid until 25 June 2020. Business Assurance No. 118871-2012-450-IND-OW. For further details, see: www.dnvgl.com

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 10000371363-MSC-RvA-IND Initial certification date: 13 June 2012 Valid: 28 June 2020 - 28 June 2023

This is to certify that the management system of

EMMVEE Photovoltaic Power Private Limited
Survey No.13/1, International Airport Road, Sonnappannahalli, Bettahalasur Post, Bengaluru - 562157, Karnataka, India

has been found to conform to the Occupational Health and Safety Management System standard:
ISO 45001:2018

This certificate is valid for the following scope:
Design and manufacture of solar photovoltaic modules
EPC (Engineering, procurement & construction) and operation & maintenance of:
- Solar photovoltaic lighting systems
- Solar photovoltaic ground mounted & rooftop power plants

Place and date:
Barendrecht, 19 November 2020

For the issuing office:
DNV GL - Business Assurance
Zweiloseweg 1, 2994 LB Barendrecht,
Netherlands

DNV-GL

Management System Representative

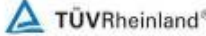
DNV-GL



Management System Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
Certification valid until 28 June 2023. Business Assurance No. 10000371363-MSC-RvA-IND. For further details, see: www.dnvgl.com

3X IEC Reliability Test

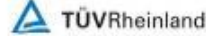
Prüfbericht - Produkte
Test Report - Products

 TÜVRheinland®

Prüfbericht-Nr.: Test report no.:	IN22NYHE 001 ULR:TC588822400000307F	Auftrags-Nr.: Order no.:	146652774	Seite 1 von 98 Page 1 of 98
Kunden-Referenz-Nr.: Client reference no.:	1108312	Auftragsdatum: Order date:	17/02/2022	
Auftraggeber: Client:	EMMVEE Photovoltaic Power Private Ltd. 11th Cross, Lakshmalah Block, 560024 Ganganagar, Bangalore, India			
Prüfgegenstand: Test item:	Photovoltaic (PV) module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Emmvee HCBG 144 for detailed type designations see product details in page 3			
Auftrags-Inhalt: Order content:	Reliability tests as per Customer requirement			
Prüfgrundlage: Test specification:	Photovoltaic (PV) modules IEC 61215-1:2016; IEC 61215-1-1:2016; IEC 61215-2:2016; IEC 61730-1:2016; IEC 61730-2:2016; EN 61215-1:2016; EN 61215-1-1:2016; EN 61215-2:2017; EN IEC 61730-1:2018; EN IEC 61730-2:2018			
Wareneingangsdatum: Date of sample receipt:	20/12/2021			
Prüfmuster-Nr.: Test sample no.:	Refer List of Test samples			
Prüfzeitraum: Testing period:	22/12/2022 – 13/05/2022			
Ort der Prüfung: Place of testing:	#27/B, 2nd Cross Road, Electronics City Phase-1, 560100, Bengaluru, India			
Prüflaboratorium: Testing laboratory:	TUV Rheinland (India) Pvt. Ltd.			
Prüfergebnis: Test result:	Pass			
geprüft von: tested by:	X 			
Datum: Date:	28/07/2022			
Stellung / Position:	Engineer-Products(S&C)	genehmigt von: authorized by:	K.Ganesh Kamath 	
Ausstellungsdatum: issue date:	28/07/2022			
Stellung / Position:	Engineer-Products(S&C)	Stellung / Position:	Manager-Products(S&C)	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery: Prüfmuster vollständig und unbeschädigt Test item complete and undamaged				
<p>Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft Pass = entspricht o.g. Prüfgrundlage(1) Fail = entspricht nicht o.g. Prüfgrundlage(2) N/A = nicht anwendbar NUT = nicht getestet 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor Pass = passed a.s. test specification(1) Fail = failed a.s. test specification(2) N/A = not applicable NUT = not tested</p> <p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</p>				

TÜV Rheinland (India) Pvt. Ltd. #27/B, 2nd Cross Road, Electronics City Phase-1, 560100, Bengaluru, India
 Mail: info@india.tuv.com • Web: www.india.tuv.com

Prüfbericht - Produkte
Test Report - Products

 TÜVRheinland®

Prüfbericht-Nr.: Test Report No.:	IN22NYHE 001 ULR:TC588822400000307F			Seite 3 von 110 Page 3 of 110
Abatz	Messergebnisse - Bemerkungen		Bewertung	
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation	
1	General			
1	Product details			
1.1	Module type designation Sapphire Series with Mono Bifacial Half cut cells with Glass Back sheet(Bifacial modules) Emmvee HCBG144 (xxx=630-646 in steps of 1 with 144 cells) xxx represents output power in Wp			
2	Used materials			
	See Constructional Data Form in the Annexure C of this report			
3	Address(es) of the manufacturing site(s)			
	Emmvee Photovoltaic Power Private Limited, SY NO.66-70/3, Pemmanahalli village, Sompura Hobli, Dabaspet, Nelamangala taluk, Bengaluru rural district, Karnataka, 562111			
4	Electrical ratings			
Module type	ES45HCBG144			
Pmpp [W]	545.0			
Isc [A _{oc}]	13.88			
Voc [V]	49.75			
Imp [A _{oc}]	13.10			
Vmpp [V]	41.61			
Maximum system voltage [V]	1500			
Maximum over-current protection rating [A]	30			
6	Summary of test results			
According to the inquiry of the customer for Reliability test requirements, tests according to IEC 61215:2016 and IEC 61730:2016, the below listed tests have been conducted on the module Type E646HCBG144 and results were incorporated in this report: IN22NYHE 001				
1. Thermal Cycling test(200) : 500 cycles 2. UV Pre conditioning test: 45KWh/m ² 3. Thermal Cycling test(50) : 150 cycles 4. Humidity freeze test: 30 cycles 5. Damp heat(1000hrs): 3000hrs				



Emmvee modules have been
used in the field for more than 15 years...





Major Customers



TRC Solar Inc.
Canada



YOUR RELIABLE
PARTNER FOR
SOLAR ENERGY
SINCE 1992



A Few Esteemed Customers



214MW

185MW



115MW

136MW



202MW

45MW



61MW

35MW



38MW



Bankability

List of international and domestic lenders funding projects with Emmvee PV modules

International Lenders

 **DZ BANK**
Die Initiativbank

 **Sparkasse**
Niederlausitz

 **Sparkasse**
Leipzig

Standard
Chartered 

 **MOSAIC®**

 **goodleap**

Domestic Lenders

 **IDFC FIRST**
Bank

 **सेन्ट्रल बैंक ऑफ़ इंडिया**
Central Bank of India

 **AXIS BANK**

 **RBL BANK**

 **HDFC BANK**
We understand your world

 **YES**  **BANK**

 **SUNRISE**
Infra Projects
Building The Future

 **Union Bank**
of India

 **बैंक ऑफ़ बड़ौदा**
Bank of Baroda

 **SBI**

German Lender Performance Testimonials

DZ BANK
Die Initiativbank

DZ BANK AG - Partner Firm 3 18117 (96/0)

EMMVEE Photovoltaics Power Pvt. Ltd.

"Solar Tower", # 55, 6th Main, 11th Cross,
Lakshmalah Block,
Ganganagar, Bengaluru
560 024, India

Berlin, 19. September 2019
Letter of recommendation / to whom it may concern

Dear Mr. Graf,

we, the DZ BANK AG, Frankfurt am Main, Germany, hereby confirm that we financed in the year 2012 a part of the 11,4 MW solar park in Bronkow, Germany, with a total loan of 14.000.000,00 €.

The solar park has been designed, built and finalized by EMMVEE. In total over 46.000 pcs. of solar modules, produced by EMMVEE Photovoltaics Private Power Ltd, India, have been used in the park.

Until today we are very satisfied with the performance and the handling of the park. The repayment of the loan as well as the fill up of the required reserve funds have been executed always correctly and in due time.

Mit freundlichen Grüßen/Kind regards

DZ BANK AG

[Signature]

DZ BANK AG
Finken Platz 3
10117 Berlin
Notariatsstelle
Postfach 08 01 52
15001 Berlin
Telefon: +49 30 20241-0
Telefax: +49 30 20241-325
mailto:dzbank.de
www.dzbank.de
Manuela Böhm
Leitende Bankfachfrau
E-Mail: manuela.boehm@dzbank.de
Telefon: +49 30 20241 399
Telefax: +49 30 20241 402
manuela.boehm@dzbank.de

Vorstand:
Uwe Rühl
(Co-Vorstandsvorsitzender)
Dr. Cornelia Rabe
(Co-Vorstandsvorsitzender)
Uwe Rühl
Dr. Christian Rühlmann
Ulrike Knoll
Wolfgang Köber
Michael Speck
Thomas Ulrich
Vorstandsdirektor
Henning Dörner
DZ BANK AG
Deutsche
Zentral-Gesamtschaftsbank,
Frankfurt am Main
Stil:
Frankfurt am Main
Antragsteller: Frankfurt am Main
Handelsregister HRB 43651
USt-IdNr. DE 141004921

Gesamtschulische FinanzGruppe
Vollständiges Rating: A-

Sparkasse
Niederlausitz

Sparkasse Niederlausitz - Postfach 10 01 20 - 01957 Senftenberg

Solarpark EMMVEE Sokrates GmbH
Pettenkoferstr. 16 - 18
10247 Berlin

Ihr Ansprechpartner:
Marion Wyhnaneck
Tel.: 03573 702 9414
Fax: 03573 702 9499
E-Mail: marion.wyhnaneck@spk-niederlausitz.de

16. September 2019

Bestätigung

Sehr geehrte Damen und Herren,

wir bestätigen hiermit, dass wir im Jahr 2013 den 3,8 MW Solarpark Sokrates in Lauchhammer mit einem Gesamtdarlehen von 4.097.636 EUR finanziert haben. Die Rückzahlung des Darlehens sowie das Auffüllen der erforderlichen Rücklagen erfolgten bisher stets korrekt und pünktlich.

Mit freundlichen Grüßen
Sparkasse Niederlausitz
Vertriebsbereich Firmen- und Gewerbekunden

[Signature]
Marion Wyhnaneck

[Signature]
Bettina Raden

Sparkasse Niederlausitz
mit Sitz in Senftenberg
Anwalt des öffentlichen Rechts
Markt 2 - 01958 Senftenberg

Telefon: 03573 702-0
Telefax: 03573 702-9999
info@spk-niederlausitz.de
www.sparkasse-niederlausitz.de

Registrierungsgericht: Amtsgericht Cottbus
Handelsregister Nr.: HRB 1198
Steuern-Nr.: 05770/440/3366
USt-IdNr.-Nr.: DE 181107029

BILZ: 180 553 00
BIC-Code: WELA2101

Sparkasse
Leipzig

Stadt- und Kreissparkasse Leipzig - Postfach 10 08 40 - 04008 Leipzig

EMMVEE Verwaltungs GmbH
Geschäftsführung / Herr Graf
Pettenkofer Str. 16-18
10247 Berlin

Firmenkunden
Corporate Finance
Humboldtstr. 25
04105 Leipzig
Dr. Josephin Sommerfeld
Telefon: 0341 986-2554
Telefax: 0341 986-2509
Josephin.Sommerfeld
@sparkasse-leipzig.de

17.09.2019

Financing Solar Park "Wolfshain"

Dear, Mr. Graf,

hereby we confirm that in 2012 we financed the solar park "Wolfshain" (2.5 MW) in Tschernitz (Germany) with a total loan of 2,900,000.00 Euro. The solar park was planned, built and completed by "EMMVEE".

In total, more than 10,000 pcs. solar modules from EMMVEE Photovoltaics Private Power Ltd., India, were used.

From our side there are no complaints. All payment obligations to our house were made punctually.

Mit freundlichen Grüßen / Kind regards

Stadt- und Kreissparkasse Leipzig

[Signature]
Apitz

[Signature]
Dr. Sommerfeld

Stadt- und Kreissparkasse Leipzig
Humboldtstraße 25, 04105 Leipzig
HRB 13414 (Amtsgericht Leipzig)
USt-ID-Nr.: DE141505490
Steuern-Nr.: 231/145/00216

Vorstand:
Dr. Harald Langenfeld (Vors.)
Heinrich Brendel
Andreas Koch
Andreas Nüdling
Vorsitzender des Verwaltungsrates:
Burkhard Jung

Telefon: +49 341 986-
Fax: +49 341 986-
www.sparkasse-
info@sparkasse-

Performance Testimonials - NHPC and L&T



एनएचपीसी लिमिटेड
(भारत सरकार का उद्यम)
NHPC Limited
(A Government of India Enterprise)
फोन/Phone :
दिनांक/Date : 04.08.2021

संदर्भ सं./Ref. No. _____

TO WHOM IT MAY CONCERN

We hereby confirm that 55 MWp of Emmvee Polycrystalline Modules (315 Wp, 320 Wp, 325 Wp & 330 Wp) has been supplied by M/s. Emmvee Photovoltaic Power Private Limited [EMMVEE] for NHPC 55 MW (DC)/50 MW (AC) Solar Power Plant at Theni District, Tamilnadu which is operational since March 2018.

This certificate is being issued on request of M/s. Emmvee Photovoltaic Power Private Limited [EMMVEE] # 13/1, International Airport Road, Bettahalasur Post, Bengaluru - 562157 received vide email dated 03.08.2021 .

This certificate is being issued for submission in NTPC limited only and has no obligation of issuer.

Sincerely,


(Animesh Anshu)
Senior Manager (RE)

Rohit Dhar
Chief operating Officer
M/s Emmvee Photovoltaic Power Private Limited
13/1, International Airport Road, Bettahalasur Post,
Bengaluru -562157

पंजीकृत कार्यालय : एन एच पी सी ऑफिस कॉम्प्लेक्स, सेक्टर-33, फरीदाबाद - 121 003, हरियाणा
Regd. Office : NHPC Office Complex, Sector-33, Faridabad - 121 003, Haryana
CIN : L40101HR1975GQ032564; Website : www.nhpcindia.com
E-mail : webmaster@nhpc.nic.in; EPABX No. : 0129-2558110/25581500
ग्रिडली से संबंधित शिकायतों के लिए 1912 कॉल करें। Dial 1912 for Complaints on Electricity

**LARSEN & TOUBRO**

Larsen & Toubro Limited
L&T Construction
Power Transmission & Distribution
Mount Poonamallee Road
Manipakkam, P. B. No. 979
Chennai 600089, INDIA

PERFORMANCE CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. Emmvee Photovoltaic Power Private Limited [EMMVEE], International Airport Road, Bettahalasur Post, Bengaluru -562157 had supplied us 55 MWp of polycrystalline PV modules comprising of 315Wp, 320Wp, 325Wp & 330Wp ratings for our below Project

Project Details:

Project Name: 55 MW(DC)/50 MW (AC) NHPC SOLAR Power Plant.
Project Location: Theni Dist., Tamil Nadu, 625602.
Po No: EG755PO7000003 dated 21st Sept 2017.
Supply Completion date: Dec -2017.

The Performance of the Modules is found satisfactory

This Certificate is issued on request of M/s. Emmvee and is without prejudice to the terms & conditions (including performance commitments) of our Purchase order.


Stamp & Signature:
Name & Designation: Mr. Sanjay, Head-Operations.
Email: kumarsanjay@intec.com;
Date: 31.08.2018



Tel : +91-44-2270 4000 / 2270 5000 Fax : +91-44-2270 5482 www.Ltppc.com
Registered Office: L&T House, N. M. Maru, Ballard Estate, Mumbai - 400 001, INDIA
License No.: CIN - L3599MH11946PLC004788
L&T Construction - Power Transmission & Distribution is a brand of Larsen & Toubro Limited

Performance Testimonials - Aditya Birla

ADITYA BIRLA RENEWABLES SPV 1 LIMITED

Registered Office: A-4, Aditya Birla Centre, S. K. Ahire Marg, Worli, Mumbai - 400 030, Maharashtra, India
Corporate Identity Number: U40300MH2017PLC296313
Phone: +91 22 2499 5000, 6652 5000, Fax: +91 22 2499 5821, 6652 5821
Email: abrespv@adityabirla.com

PERFORMANCE CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. Emmvee Photovoltaic Power Private Limited, # 13/1, International Airport Road, Bettahalasur Post, Bengaluru -562157 had supplied us 4 MW of Polycrystalline PV modules comprising of 320Wp & 325Wp ratings for our below Project:

Project Details

Project Name : 5 MWp Sewagram Cement Works
Project Location : Sewagram Cement Works,
C/o Ultratech Cement, Village Vayor
Taluka, Abdasa Distt: Kutch
Gujarat. Pin 370511
Supply Time : 03.05.2018
Commissioning Time : 14.08.2018
PO Reference No. : 1500001885 dt 03.05.2018 (Waree Energies Ltd)

The supply Order was completed successfully by M/s EMMVEE. The Performance of the Modules is found satisfactory and are in successful operation.

For Aditya Birla Renewables SPV 1 Limited


Jitesh Kumar
Manager – Purchase (Solar Power Business)
Email: jitesh.k@adityabirla.com

Date : 20th July 2021

ADITYA BIRLA RENEWABLES SUBSIDIARY LIMITED

Registered Office: A-4, Aditya Birla Centre, S. K. Ahire Marg, Worli, Mumbai - 400 030, Maharashtra, India
Corporate Identity Number: U40108MH2018PLC309087
Phone: +91 22 2499 5000, 6652 5000, Fax: +91 22 2499 5821, 6652 5821
Email: abrst@adityabirla.com

PERFORMANCE CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. Emmvee Photovoltaic Power Private Limited, # 13/1, International Airport Road, Bettahalasur Post, Bengaluru -562157 had supplied us 30 MW of Polycrystalline PV modules comprising of 320Wp & 325Wp ratings for our below Project:

Project Details

Project Name : 30 MWp Lapanga
Project Location : C/o Aditya Birla Renewables Subsidiary Ltd
Lapanga Village, Tahsi-Rengali, Sambalpur
Orissa, Pin 768212
Supply Time : 12.09.2018
Commissioning Time : 02.11.2018
PO Reference No. : 5000025127 dt 12.09.2018 (Tata Power Solar)

The supply Order was completed successfully by M/s EMMVEE. The Performance of the Modules is found satisfactory and are in successful operation.

For Aditya Birla Renewables Subsidiary Limited


Jitesh Kumar
Manager – Purchase (Solar Power Business)
Email: jitesh.k@adityabirla.com

Date : 20th July 2021

Corporate Office: Birla Aurora, 11th Floor, Dr. Annie Besant Road, Worli, Mumbai - 400 030, Maharashtra, India
T: +91 22 2439 9220 / 6110 9720

Performance Testimonials - Aditya Birla



Date: 19-07-2022

PERFORMANCE CERTIFICATE TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Emmvee Photovoltaic Power Private Limited, # 13/1, International Airport Road, Bettahalsur Post, Bangalore – 562157 had supplied 50 Mw of 325 Wp & 330 Wp Polycrystalline Photovoltaic Modules for our below project as below:

Project Details:

Project Name : 50 MWp Talsana Project - Aditya Birla Renewables Ltd
Owner : ADITYA BIRLA RENEWABLES LIMITED
Project Location : Village - Rojasar, Fulwadi, Ranagadh
Taluka - Limbdi
Surendranagar - District
Gujarat
Supply Time : September - October 2020
Commissioning Time : November, 2020

The Supply Order was completed successfully by M/s EMMVEE. The Performance of the Solar Photovoltaic Modules is found satisfactory till date and are in successful operation.

For Aditya Birla Renewables Limited

[Signature]

Jitesh Kumar
Manager - Purchase (Solar Power Business)
Email: jitesh.k@adityabirla.com



Aditya Birla Renewables Limited
Registered Office: A-4, Aditya Birla Centre, S K Ashie Marg, Worli, Mumbai 400 030, Maharashtra, India
T: +91 22 2499 5000 / 4452 5000 | F: +91 22 4452 5821 / 2499 5821
E: abrel@adityabirla.com | W: www.adityabirla.com
Administrative Office: Birla Aurrea, 11th Floor, Dr. Annie Besant Road, Worli, Mumbai - 400 030, Maharashtra, India
T: +91 22 2439 9220 / 6110 9720
Corporate ID No.: U40300MH2015PLC267263



PERFORMANCE CERTIFICATE TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Emmvee Photovoltaic Power Private Limited, # 13/1, International Airport Road, Bettahalsur Post, Bangalore – 562157 had supplied 41.50 Mw of 325 Wp & 330 Wp Polycrystalline Photovoltaic Modules for our below project as below:

Project Details:

Project Name : 30 MW Solar Power Plant- Aditya Birla Renewables Ltd
Owner : ADITYA BIRLA RENEWABLES LIMITED
Project Location : Pipardi, Taluka - Jeshner, District Bhavnagar
Gujarat
Supply Time : September 2019
Commissioning Time : February 2020

The Supply Order was completed successfully by M/s EMMVEE. The Performance of the Solar Photovoltaic Modules is found satisfactory till date and are in successful operation.

For ADITYA BIRLA RENEWABLES LIMITED

[Signature]



Jitesh Kumar
Manager - Purchase (Solar Power Business)
email: jitesh.k@adityabirla.com

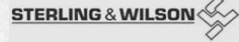
Date : 20th July 2022

Aditya Birla Renewables Limited
Registered Office: A-4, Aditya Birla Centre, S K Ashie Marg, Worli, Mumbai 400 030, Maharashtra, India
T: +91 22 2499 5000 / 4452 5000 | F: +91 22 4452 5821 / 2499 5821
E: abrel@adityabirla.com | W: www.adityabirla.com
Administrative Office: Birla Aurrea, 11th Floor, Dr. Annie Besant Road, Worli, Mumbai - 400 030, Maharashtra, India
T: +91 22 2439 9220 / 6110 9720
Corporate ID No.: U40300MH2015PLC267263



YOUR RELIABLE
PARTNER FOR
SOLAR ENERGY
SINCE 1992

Performance Testimonials - Sterling & Wilson



PERFORMANCE CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. Emmvee Photovoltaic Power Private Limited [EMMVEE], # 13/1, International Airport Road, Bettahalasur Post, Bengaluru -562157 had supplied us 41.50 MW of Polycrystalline PV modules comprising of 325Wp and 330Wp ratings for our below Project :

Project Details

Project Name : 30 MW Solar Power Plant
Project Location : Pipardi, Taluka-Jesher, Dist-Bhavnagar.
Module Sale Contract date : 12th September 2019
Supply Time : February 2020

The supply Contract was completed successfully by M/s EMMVEE. The Performance of the Modules is found satisfactory and is in successful operation.

For Sterling and Wilson Solar Limited.,

Authorised Signatory
Name: Shyam Sunder Jangid
Designation: Head North – East
Email ID: Shyam.Sunder@Sterlingwilson.com
Date: 15-12-2021

Sterling and Wilson Solar Limited
(Formerly known as Rashmika Energy Private Limited)
Associates of: Shapoorji Pallonji and Company Private Limited
Registered Office: Universal Majestic, 9th Floor, P. L. Lokhande Marg, Chembur (W), Mumbai – 400 043
Branch Office: Ground Floor, A-25, Imperia Building, Near Metro Pillar Number 67-68,
Mohan Cooperative Mathura Road New Delhi-110044
Phone: (91-11) 6613 4600 | CIN: U74999MH2017PLC292281
Email: info@sterlingwilsonsolar.com | www.sterlingandwilsonsolar.com



PERFORMANCE CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. Emmvee Photovoltaic Power Private Limited [EMMVEE], # 13/1, International Airport Road, Bettahalasur Post, Bengaluru -562157 had supplied us 50 MW of Polycrystalline PV modules comprising of 325Wp and 330Wp ratings for our below Project :

Project Details

Project Name : 50 MWp Aditya Birla Renewables Ltd
Project Location : Village- Fulwadi and Ranagadh,
Taluk- Limbdi, Dist- Surendranagar.
Module Sale Contract date : 13th Sep 2019
Supply Time : September 2020

The supply Order was completed successfully by M/s EMMVEE. The Performance of the Modules is found satisfactory and is in successful operation.

For Sterling and Wilson Solar Limited.,

Authorised Signatory
Name: Shyam Sunder Jangid
Designation: Head North – East
Email ID: Shyam.Sunder@Sterlingwilson.com
Date: 15-12-2021

Sterling and Wilson Solar Limited
(Formerly known as Rashmika Energy Private Limited)
Associates of: Shapoorji Pallonji and Company Private Limited
Registered Office: Universal Majestic, 9th Floor, P. L. Lokhande Marg, Chembur (W), Mumbai – 400 043
Branch Office: Ground Floor, A-25, Imperia Building, Near Metro Pillar Number 67-68,
Mohan Cooperative Mathura Road New Delhi-110044
Phone: (91-11) 6613 4600 | CIN: U74999MH2017PLC292281
Email: info@sterlingwilsonsolar.com | www.sterlingandwilsonsolar.com



YOUR RELIABLE
PARTNER FOR
SOLAR ENERGY
SINCE 1992

Performance Testimonials - DRES

DRES Energy Private Limited

TO WHOM SO EVER IT MAY CONCERN

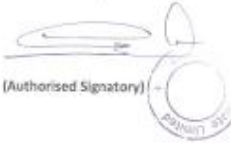
THIS IS TO CERTIFY THAT 'M/s Emmvee Photovoltaic Power Private limited' having its Registered Office at # 55, "Solar Tower", 6th Main, 11th Cross, Lakshmaiah Block, Ganganagar, Bangalore - 560024 and Corporate office at # 13/1, International Airport Road, Bettahalekur Post, Bangalore - 562157 has successfully Completed the works of Engineering, Procurement, Construction (EPC) including entire manufacture and supply of EMMVEE polycrystalline Solar Photovoltaic Modules of 15 MWp Capacity comprising of 300 Wp, 305 Wp, 310 Wp and 315 Wp ratings for our following solar projects :

Sr No.	Name of the Project	Location	EPC Agreement Date including manufacture & supply of EMMVEE Polycrystalline PV Modules	Synchronization Date
1	DRES ENERGY Pvt. Ltd - 08 MW Solar PV Plant	Lingampally (V) Municipality (M) of Medak District of Telangana State	20-01-2016	25-03-2017
2	DRES ENERGY Pvt. Ltd. - 07 MW Solar PV Plant	Bahadurpally (V) Quithubullapur (M) Medchal District of Telangana State	20-01-2016	28-12-2017

The Performance of the EMMVEE Solar Photovoltaic Modules is found satisfactory till date and these are in successful operation.

This certificate is issued on 11th September 2021 at Bangalore

For DRES Energy Private Limited

(Authorised Signatory) 

File 55, Solar Tower, 6th Main, 11th Cross, Lakshmaiah Block, Ganganagar, Bangalore - 560024 Phone +91 80 4323 3311 Fax +91 80 2333 2060
Email info@emmvee.in Website www.emmvee.com CIN U40104KA2015PTC082148

Certifications - BIS



भारतीय मानक ब्यूरो
(गोपनीय एवं सार्वजनिक उपयोग के लिए मानक, खाद्य व वस्त्र)
BUREAU OF INDIAN STANDARDS
(Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002
Masak Bhawan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002
दूरभाष / Phone : +91-11-23230856/232301031/23233375/23239402
ई-मेल / E-mail: registration@bis.gov.in
वेबसाइट / Website: <https://bis.gov.in/>, <https://www.csis.in/BIS/>

Our Ref: Registration/CRS 2022-1004/R-62002976

Date: 25-03-2022

Subject : Licence Document

Manufacturing Unit :	Emmvee Photovoltaic Power Private Limited SY.NO.66-70/3, PEMMANAHALLI VILLAGE, SOMPURA HOBLI, DABASPET, NELAMANGALA TALUK, BENGALURU RURAL DISTRICT KARNATAKA, India-562111 info@emmvee.in 08022174333	
----------------------	--	--

Dear Sir,

1. With reference to your Application, we are pleased to inform you that it has been decided to grant you licence as per details given below :

Product Category:	CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)
Product Name:	Crystalline Silicon Terrestrial Photovoltaic (PV) modules (Si wafer based)
IS NO :	IS 14286 : 2010/ IEC 61215 : 2005, IS/IEC 61730 (PART 1) : 2004 & IS/IEC 61730 (PART 2) : 2004
Brand (As Declared by Manufacturer) :	EMMVEE
Model :	[Brand -> EMMVEE, Models -> E405HCBG120, E405HCMW120, E410HCBG120, E410HCMW120, E415HCBG120, E415HCMW120, E420HCBG120, E420HCMW120, E425HCBG120, E425HCMW120, E430HCBG120, E430HCMW120, E435HCBG120, E435HCMW120, E440HCBG120, E440HCMW120, E445HCBG120, E445HCMW120, E450HCBG120, E450HCMW120, E405HCBG144, E405HCMW144, E500HCBG144, E500HCMW144, E505HCBG144, E505HCMW144, E510HCBG144, E510HCMW144, E515HCBG144, E515HCMW144, E520HCBG144, E520HCMW144, E525HCBG144, E525HCMW144, E530HCBG144, E530HCMW144, E535HCBG144, E535HCMW144, E540HCBG144, E540HCMW144, E545HCBG144, E545HCMW144]
Factory Address :	SY.NO.66-70/3, PEMMANAHALLI VILLAGE, SOMPURA HOBLI, DABASPET, NELAMANGALA TALUK, BENGALURU RURAL DISTRICT KARNATAKA, India-562111

- The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.
- The number assigned to this Licence is **R-62002976** which has been made operative from **25-03-2022** and is valid upto **24-03-2024**. The Licence Number should invariably be referred to in your future correspondence.
- The rights and privileges under the licence shall not be exercised by any other factory / organization at any other location. This licence is not transferable. In the event of shifting of the manufacturing machinery from the registered premises to some other place use of the licence Number shall be stopped and BIS shall be informed.
- The licensee shall comply with the provisions of the Act, rules and regulations framed thereunder and as amended from time to time.
- The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.
- The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed thereunder and as amended from time to time.
- Upon expiry of validity, stoppage or suspension or cancellation of licence, you shall discontinue forthwith the self declaration of conformity to the relevant Indian Standard(s) and withdraw all promotional and advertising matter which contains any reference thereto.
- For renewal of licence, the licensee shall have to apply to BIS three months in advance before expiration of the licence and application form for renewal is available on BIS website.
- The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Sundeeep Kumar)
Sc. D
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.



YOUR RELIABLE
PARTNER FOR
SOLAR ENERGY
SINCE 1992

Almm listing is mandatory for PV modules to be deployed in India

F. No. 283/54/2018-GRID SOLAR-Part(I)

भारत सरकार / Government of India

नवीन और नवीकरणीय ऊर्जा मंत्रालय / Ministry of New & Renewable Energy

ग्रिड सौर ऊर्जा प्रभाग / Grid Solar Power Division

Block No. 14, C.G.O. Complex,
Lodhi Road, New Delhi - 110003.
Dated: 30th December, 2021

OFFICE MEMORANDUM

Sub: Updation of List I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 - Reg.

Reference is invited to this Ministry's O.Ms of even no. dated 10.03.2021, regarding implementation of Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order, 2019 and publishing List - I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019.

2. The List - I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 has been updated vide this Ministry's O.Ms of even no. dated 17.08.2021, 29.09.2021 and 10.11.2021.

3. This Ministry has further updated the List - I (Manufacturers and Models of Solar PV Modules) of ALMM Order, 2019 as on 30.12.2021, i.e. Revision - 4 and the same is enclosed herewith as Annexure - I.

4. This issues with the approval of Hon'ble Minister (NRE & Power).

Ayush Gupta
(Ayush Gupta)
Scientist-B

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To: All Concerned

CC: Director (Technical), NIC, MNRE for uploading this document on MNRE's website

Detailed List of Manufacturers and Models of Solar PV Modules Recommended under ALMM Order (As on 30.12.2021)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	Enlisted Capacity (MWp / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	No. of Cells in Module	System Voltage (in Volt)	Validity	
										From	To
4	Emmvee Photovoltaic Power Pvt. Ltd.	Bettahalasuru, Bengaluru, Karnataka, India	500	i	Multi C-Si Module	E335P72 (335 Wp)	E335P72	72 (Full Cells)	1500	10.03.2021	09.03.2023
							E335P72				
							E335P72				
							E335P72				
							E335P72				
							E335P72				
				ii	Multi C-Si Module	E280P60 (280 Wp)	E270P60	60 (Full Cells)	1500	10.03.2021	09.03.2023
							E275P60				
							E280P60				
							E285P60				
							E290P60				
							E290P60				
				iii	Mono PERC Module	E380M72 (380 Wp)	E365M72	72 (Full Cells)	1500	10.03.2021	09.03.2023
							E370M72				
							E375M72				
							E380M72				
							E385M72				
							E390M72				
				iv	Mono PERC Module	E315M60 (315 Wp)	E395M72	60 (Full Cells)	1500	10.03.2021	09.03.2023
							E300M60				
							E305M60				
							E310M60				
							E315M60				
							E320M60				



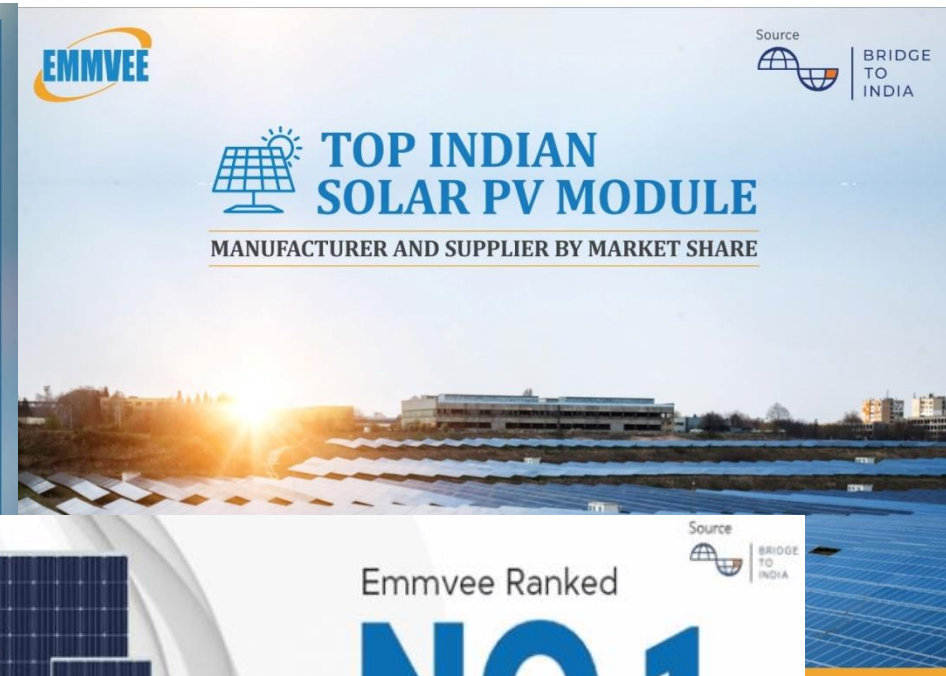
Almm for higher Watt Peak Modules

List of Manufacturers and Models of Solar PV Modules enlisted under ALMM Order (As on 27.09.2022)

S. No.	Name of the Manufacturer	Location of Manufacturing Facility	Enlisted Capacity (MWs / Year)	S. No.	Type of Module	Applied Model	Enlisted Models	No. of Cells in Module	System Voltage (in Volt)	Validity	
										From	To
73	M/s. Emmvee Photovoltaic Power Private Limited	Sy. No. 66-70/3, Pemmanahalli Village, Sompura Hobli, Dabaspet, Nelamangala Taluk, Bengaluru rural District, Karnataka	525	i	Mono C-Si PERC Monofacial Modules	E520HCMW144 (520 Wp)	E545HCMW144	144 (Half Cut Cells)	1500	27.09.2022	26.09.2024
							E540HCMW144			27.09.2022	26.09.2024
							E535HCMW144			27.09.2022	26.09.2024
							E530HCMW144			27.09.2022	26.09.2024
							E525HCMW144			27.09.2022	26.09.2024
							E520HCMW144			27.09.2022	26.09.2024
							E515HCMW144			27.09.2022	26.09.2024
							E510HCMW144			27.09.2022	26.09.2024
							E505HCMW144			27.09.2022	26.09.2024
							E500HCMW144			27.09.2022	26.09.2024
							E495HCMW144			27.09.2022	26.09.2024
				ii	Mono C-Si PERC Bi-Facial Modules	E520HCBG144 (520 Wp)	E545HCBG144	144 (Half Cut Cells)	1500	27.09.2022	26.09.2024
							E540HCBG144			27.09.2022	26.09.2024
							E535HCBG144			27.09.2022	26.09.2024
							E530HCBG144			27.09.2022	26.09.2024
							E525HCBG144			27.09.2022	26.09.2024
							E520HCBG144			27.09.2022	26.09.2024
							E515HCBG144			27.09.2022	26.09.2024
							E510HCBG144			27.09.2022	26.09.2024
							E505HCBG144			27.09.2022	26.09.2024
							E500HCBG144			27.09.2022	26.09.2024
							E495HCBG144			27.09.2022	26.09.2024
				iii	Mono C-Si PERC Monofacial Modules	E430HCMW120 (430 Wp)	E450HCMW120	120 (Half Cut Cells)	1500	27.09.2022	26.09.2024
							E445HCMW120			27.09.2022	26.09.2024
							E440HCMW120			27.09.2022	26.09.2024
							E435HCMW120			27.09.2022	26.09.2024
							E430HCMW120			27.09.2022	26.09.2024
							E425HCMW120			27.09.2022	26.09.2024
							E420HCMW120			27.09.2022	26.09.2024
							E415HCMW120			27.09.2022	26.09.2024
							E410HCMW120			27.09.2022	26.09.2024
				iv	Mono C-Si PERC Bi-Facial Modules	E430HCBG120 (430 Wp)	E450HCBG120	120 (Half Cut Cells)	1500	27.09.2022	26.09.2024
							E445HCBG120			27.09.2022	26.09.2024
							E440HCBG120			27.09.2022	26.09.2024
							E435HCBG120			27.09.2022	26.09.2024
							E430HCBG120			27.09.2022	26.09.2024
							E425HCBG120			27.09.2022	26.09.2024
							E420HCBG120			27.09.2022	26.09.2024
							E415HCBG120			27.09.2022	26.09.2024
							E410HCBG120			27.09.2022	26.09.2024



Achievements





Awards & Accolades

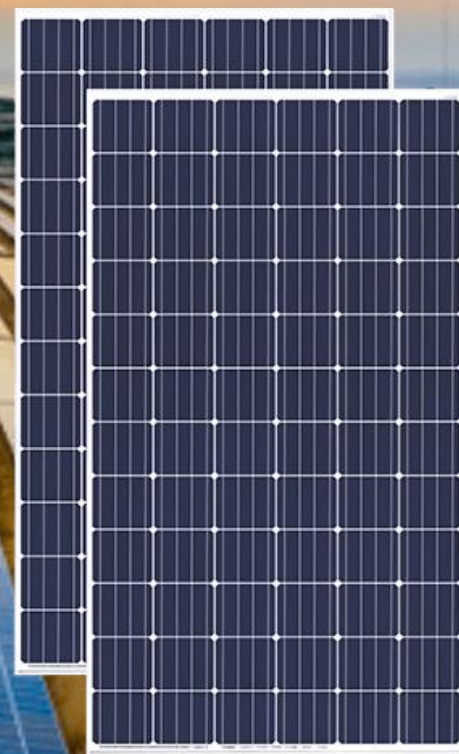
- Young Entrepreneur Of The Year 2002
- National Award 2002-2007
- Business Leader Of The Year 2008
- Best Performing SME Awarded CNBC TV18 2010
- Best Manufacturer Exporter Award 2011
- Outstanding Export Performance Award 2011
- Best PV Module Manufacturer & Solar Power Developer Award 2014



- Sourya Urja Bhushan Award 2015
- Solar PV Module Manufacturer of The Year 2016
- Leading RE Manufacturer 2016
- Winner of Customer Choice Award 2017
- Solar Consumer Choice Award 2018
- Solar Module Company of the Year 2020
- Business Leadership Excellence Award 2020



Emmvee Photovoltaic Modules



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