


भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

 (Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

दूरभाष / Phone: +91-11-23230856/2323010131/23233375/23239402

 ई-मेल / E-mail: registration@bis.gov.in

 वेबसाइट / Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: Registration/CRS 2018-5463/R-72001791

Date:08-01-2019

Subject : Licence Document

Manufacturing Unit :	Australian Premium Solar (India) Pvt. Ltd PLOT NO:-143, ROAD 4A, GIDC- KATHWADA, AHMEDABAD, GUJARAT - 382430, INDIA dhaval@australianpremiumsolar.co.in 8826298278	
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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 :	Crystalline Silicon Terrestrial Photovoltaic (PV) modules (Poly-Crystalline)
IS NO :	IS 14286 : 2010/ IEC 61215 : 2005, IS/IEC 61730 (PART 1) : 2004 & IS/IEC 61730 (PART 2) : 2004
BRAND :	APS with LOGO
MODEL :	APSAP6-250/60, APSAP6-300/72, APSAP6-255/60, APSAP6-260/60, APSAP6-265/60, APSAP6-270/60, APSAP6-275/60, APSAP6-280/60, APSAP6-285/60, APSAP6-305/72, APSAP6-310/72, APSAP6-315/72, APSAP6-320/72, APSAP6-325/72, APSAP6-330/72, APSAP6-335/72, APSAP6-340/72, APSAP6-345/72, APSAP6-350/72
FACTORY ADDRESS :	Australian Premium Solar (India) Pvt. Ltd PLOT NO:-143, ROAD 4A, GIDC- KATHWADA, AHMEDABAD. GUJARAT-382430, INDIA

2. The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.

 3. The number assigned to this Licence is **R-72001791** which has been made operative from **02-01-2019** and is valid upto **01-01-2021** The Licence Number should invariably be referred to in your future correspondence.

4. 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.

5. The licensee shall comply with the provisions of the Act, rules and regulations framed there under and as amended from time to time.

6. The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.

7. The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed there under and as amended from time to time.

8. 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.

9. 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.

10. The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Vibha Rani)
Sc. D
Telfax : +91-11-23230856
E-mail: registration@bis.org.in

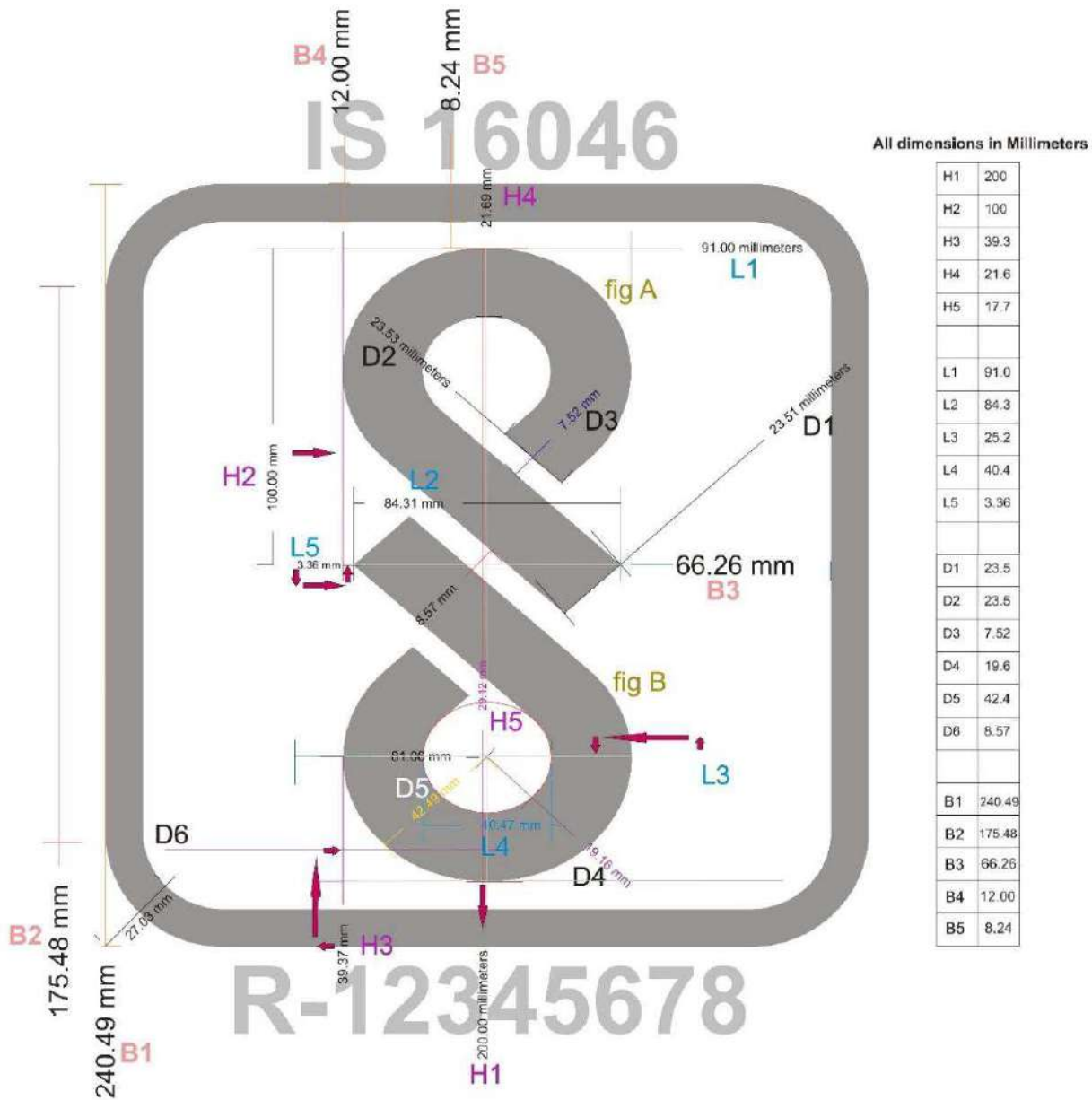
Note: This is a system generated letter. Hence signature is not required. Please do not reply to this mail.
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Annex - 1

The guidelines for use of Standard Mark for Scheme-C are per 3(1) of BIS (Conformity Assessment) Regulations, 2017 are given below:

- i) The monogram of the "Standard Mark" consists of the pictorial representation, drawn in the exact style as indicated in the figure in the figure in Annexure I. Its photographic reduction and enlargement is permitted.
- ii) The "Standard Mark" can be displayed in single colour or multi-colour as per the details given below. The colour scheme for the Standard Mark to be used in multi colour shall be use as indicated below.
- iii) The licensee shall display the "Standard Mark" on the article and/or the packaging, as the case may be, in a manner so as to be easily visible. It shall be legible, indelible and non-removable. Further, the durability of marking shall be as per the provisions of the relevant Indian Standard, wherever applicable. The display of IS number, Registration number and words shall not be less than Arial font size 6.
- iv) Any device with a integrated display screen may present the Standard Mark electronically (e-labelling) in lieu of a physical presentation on the product.

Measurement for the Self Declaration of Conformity(SDoC) mark



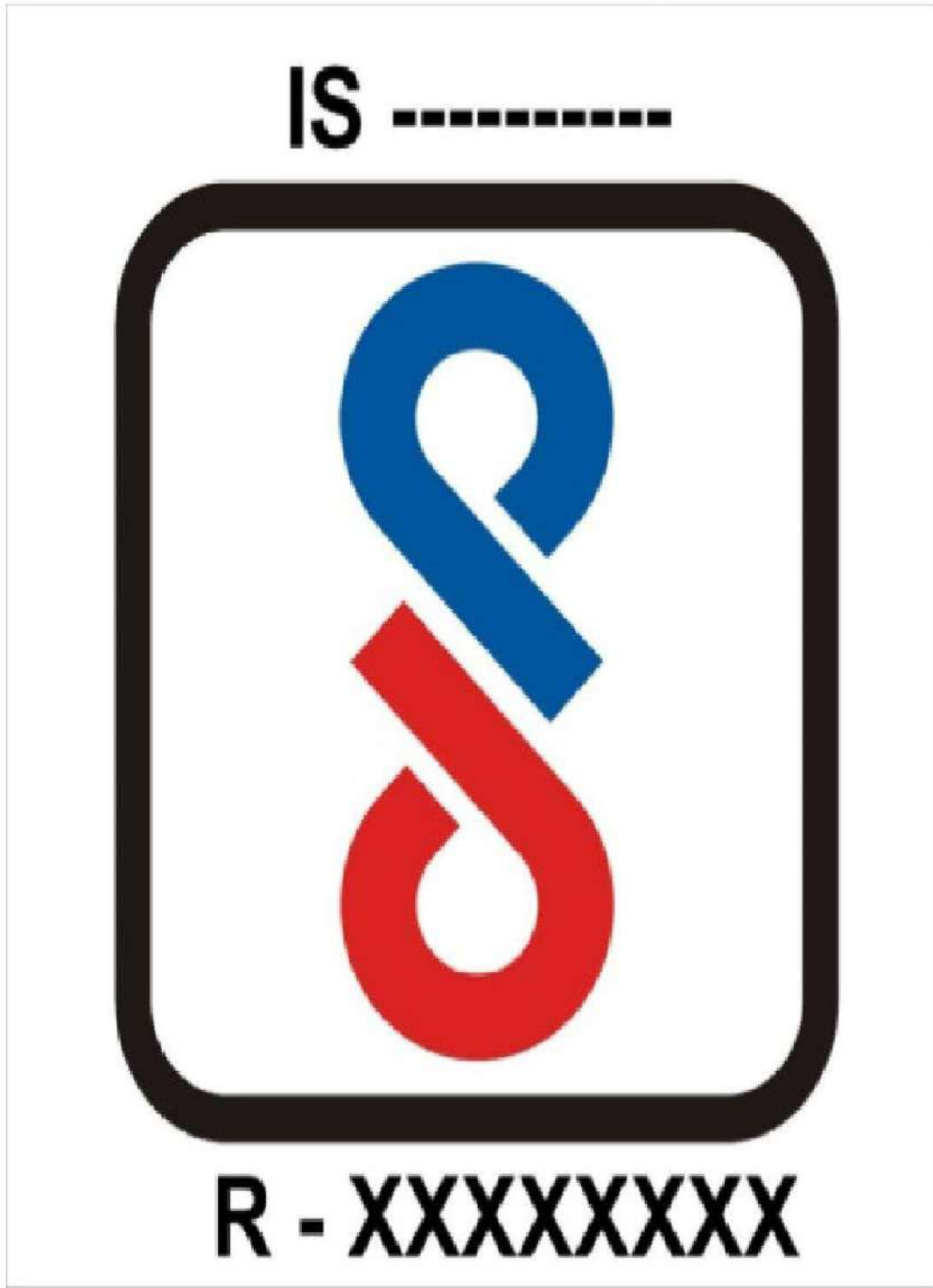
For multicolour Standard Mark the colour scheme shall be - Red, Blue and Black.

a) For printing purposes, colours shall be "Oriental Blue" and "Monopol Red" as per IS 1222:1992. 'Ink, duplicating for twin cylinder rotary machines (third revision)'

b) For sign board purposes, colours shall be "French Blue" (No.166) Red" (No.537) as per IS 5:1994 "Colours for ready mixed paints and enamels (fourth revision)".

For single colour Standard Mark, there is no restriction in the choice of the colour.

The font style and size used is Arial-85 pt.





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दूरभाष Phones : 2323 0131 / 2323 3375 / 2323 9402

वेबसाइट Website : www.bis.org.in, www.bis.gov.in

Our Ref: Registration/ R-72001791

Dated: 13-12-2019

REQUEST ID: ONC-000555

Subject: Change in Address & Management composition of manufacturing unit

MANUFACTURING UNIT:
AUSTRALIAN PREMIUM SOLAR (INDIA) PVT. LTD
TAJPUR, NH-08, TA:PRANTIJ
DIST.: SABARKANTHA-383205
dhaval@australianpremiumsolar.co.in
7622023249

Dear Sir,

This has reference to BIS licence(s) held by your company as given in the table below & further reference to your request regarding change in address & management composition of the manufacturer unit:

On the basis of documents submitted by the firm, the following changes have been made in the scope of licence:

Licence No.	CRS 2018-5463/R-72001791
Old Address details:	PLOT NO:-143, ROAD 4A, GIDC- KATHWADA AHMEDABAD-382430, GUJARAT-INDIA 8826298278
New Address details:	TAJPUR, NH-08, T.A:- PRANTIJ TAJPUR, TA: PRANTIJ DIST: SABARKANTHA :383205 7622023249
Addition in management composition details:	CHIMABHAI RANCHHODBHAI PATEL (DIRECTOR) SAVITABEN CHIMANBHAI PATEL (DIRECTOR)
Date of decision	25-11-2019

Other terms and conditions of the licence remain the same.

Thanking you,

Yours faithfully,

(Signature)
13/12/2019

(L.S.CHAUHAN)

Scientist-C (Reg. Deptt.)

Telefax : +91-11-2323 0856

E-mail: registration@bis.org.in



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वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: REGISTRATION /CRS-2018-5463/R-72001791

Dated: 2020-12-28
14:52:26

RENEWAL ID : 9286

Subject : RENEWAL OF LICENCE R-72001791 AS PER IS 14286 : 2010/ IEC 61215 : 2005, IS/IEC 61730 (Part 1) : 2004 & IS/IEC 61730 (Part 2) : 2004

Australian Premium Solar (India) Pvt. Ltd
Tajpur, NH-08, TA:Prantij, Dist.: Sabarkantha
GUJARAT, India, 383205



Dear Sir/Madam,

With reference to your online application dated 28-12-2020 for renewal of the above mentioned licence; this is to inform you that the same has been renewed from **02-01-2021 to 01-01-2023**.

It may be noted that the said licence granted under clause (b) of sub section (2) of section 13 of the Act shall *expire* at the end of the period for which it is granted unless renewed or its renewal is deferred. You are, therefore, requested to apply for next renewal to BIS within three months before the expiration of the licence.

Thanking you.

Yours faithfully,

Registration Department
Bureau of Indian Standards,
9, Bahadur Shah Zafar Marg,
New Delhi-110002.
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

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BUREAU OF INDIAN STANDARDS

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ई-मेल/E-mail: registration@bis.gov.in
वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: REGISTRATION /CRS-2018-5463/R-72001791

Dated: 2022-12-08
11:09:21

RENEWAL ID : 17789

Subject : RENEWAL OF LICENCE R-72001791 AS PER IS 14286 : 2010/ IEC 61215 : 2005, IS/IEC 61730 (Part 1) : 2004 & IS/IEC 61730 (Part 2) : 2004

Australian Premium Solar (India) Pvt. Ltd
Tajpur, NH-08, TA:Prantij, Dist.: Sabarkantha
GUJARAT, India, 383205



Dear Sir/Madam,

With reference to your online application dated 08-12-2022 for renewal of the above mentioned licence; this is to inform you that the same has been renewed from **02-01-2023 to 01-01-2025**.

It may be noted that the said licence granted under clause (b) of sub section (2) of section 13 of the Act shall *expire* at the end of the period for which it is granted unless renewed or its renewal is deferred. You are, therefore, requested to apply for next renewal to BIS within three months before the expiration of the licence.

Thanking you.

Yours faithfully,

Registration Department
Bureau of Indian Standards,
9, Bahadur Shah Zafar Marg,
New Delhi-110002.
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

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For details information on BIS, consult the e-BIS Portal (www.manakonline.in).
Please use BIS CARE APP for verification of ISI-marked goods and hallmarked gold jewellery.

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Australian Premium Solar (India) Pvt. Ltd.
Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat
India

is authorized to provide the product mentioned below with the mark as illustrated:



Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Valid until: 2027-02-24

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 61701:2011 / EN 61701:2012 Severity 6.
Registered No.:	44 780 22 406749 - 031
Manufacturer:	see Annex 1
Test Report No.:	492011937.001
File No.:	PVP08087/21P-02



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2022-02-25

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 22 406749 - 031

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP08087/21P-02

2022-02-25

Manufacturer:

Manufacturer:

Australian Premium Solar (India) Pvt. Ltd.

Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat, India

Factory inspection report no.:

862010589.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

Module types:	PV Modules with 6" Poly-crystalline Silicon Solar Cells: 72 cells: APSAP6-xxx/72 (xxx = 330 - 350, in increment of 5) 66 cells: APSAP6-xxx/66 (xxx = 300 - 320, in increment of 5) 60 cells: APSAP6-xxx/60 (xxx = 275 - 290, in increment of 5)
Maximum system voltage:	1000V
Fuse rating:	15A
Application class:	Class A
Electrical protection class:	Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Australian Premium Solar (India) Pvt. Ltd.

Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat
India

is authorized to provide the product mentioned below with the mark as illustrated:



Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Valid until: 2027-02-24

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 62716:2013 / EN 62716:2013 + AC:2014,
Registered No.:	44 780 22 406749 - 032
Manufacturer:	see Annex 1
Test Report No.:	492011938.001
File No.:	PVP08087/21P-03



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2022-02-25

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 22 406749 - 032

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP08087/21P-03

2022-02-25

Manufacturer:

Manufacturer:

Australlan Premium Solar (India) Pvt. Ltd.

Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat, India

Factory inspection report no.:

862010589.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

Module types:	PV Modules with 6" Poly-crystalline Silicon Solar Cells: 72 cells: APSAP6-xxx/72 (xxx = 330 - 350, in increment of 5) 66 cells: APSAP6-xxx/66 (xxx = 300 - 320, in increment of 5) 60 cells: APSAP6-xxx/60 (xxx = 275 - 290, in increment of 5)
Maximum system voltage:	1000V
Fuse rating:	15A
Application class:	Class A
Electrical protection class:	Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Australian Premium Solar (India) Pvt. Ltd.
Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat
India

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2022-02-25

Valid until: 2027-02-24

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-04 Rev. 00 (IEC 60068-2-68:1994 modified)
Remark:	Test Method Lc1; Dust concentration: $5 \pm 0.5 \text{g/m}^3$; Wind velocity: $20 \pm 2 \text{m/s}$; Test duration: 4 hours each side.
Registered No.:	44 780 22 406749 - 033
Manufacturer:	see Annex 1
Test Report No.:	492011939.001
File No.:	PVP08087/21P-04

A blue ink signature, likely of a representative of TÜV NORD CERT GmbH.

TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2022-02-25

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 22 406749 - 033

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP08087/21P-04

2022-02-25

Manufacturer:

Manufacturer:

Australian Premium Solar (India) Pvt. Ltd.

Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat, India

Factory inspection report no.:

862010589.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

Module types:	PV Modules with 6" Poly-crystalline Silicon Solar Cells: 72 cells: APSAP6-xxx/72 (xxx = 330 - 350, in increment of 5) 66 cells: APSAP6-xxx/66 (xxx = 300 - 320, in increment of 5) 60 cells: APSAP6-xxx/60 (xxx = 275 - 290, in increment of 5)
Maximum system voltage:	1000V
Fuse rating:	15A
Application class:	Class A
Electrical protection class:	Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Test Report No. TRPVP08087/21P/01

Panfile Parameters Measurement

Applicant: **Australian Premium Solar (India) Pvt. Ltd.**
Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat, India

File No.: PVP08087/21P-01

Designed: *Dec. 8th. 2021* by: *Keira Hao*
(Project Engineer)

Reviewed: *Dec. 8th. 2021* by: *Bella Lin*
(Technical Certifier)

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List of contents

List of contents.....	2
1. Setting of tasks	3
2. Basis for testing	3
3. Test location	3
4. Measurement method description	4
4.1 Maximum power determination	4
4.2 Temperature coefficient.....	4
4.3 Maximum power output under different temperature and irradiance level	4
5. Samples	5
6. Test results	6
6.1 Maximum power determination	6
6.2 Measurement of temperature coefficients	7
6.3 Maximum power output under different temperature and irradiance level	8
Annex 1: List of measurement equipment.....	10
Annex 2: Statement of the estimated uncertainty of the test results.....	11
Annex 3: IV measurement characteristics.....	12
Annex 4: Photos	13

1. Setting of tasks

According to the inquiry of the applicant, perform related measurements to determine parameters for creating panfile to be used in PVsyst.

2. Basis for testing

- IEC 60904-1:2020 Photovoltaic devices - Part 1: Measurement of photovoltaic current-voltage characteristics.
- IEC 60904-3:2019 Photovoltaic devices - Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data.
- IEC 60904-9:2007 Photovoltaic devices - Part 9: Solar simulator performance requirements.
- IEC 60904-9:2020 Photovoltaic devices - Part 9: Classification of solar simulator characteristics
- IEC 61215-2:2016 Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part2: Test procedures
- IEC 60891:2009 Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics
- IEC 61853-1:2011 Photovoltaic (PV) module performance testing and energy rating - Part 1: Irradiance and temperature performance measurements and power rating.

3. Test location

Changzhou HuaYang Inspection and Testing Technology Co., Ltd.

No.8 Lanxiang Road, Wujin Economic Development Zone

Changzhou, Jiangsu, P.R. China

4. Measurement method description

4.1 Maximum power determination

The test is performed in accordance with the IEC 61215-2:2016.

4.2 Temperature coefficient

The test is performed in accordance with the IEC 60891:2009. The purpose of this test is to determine the temperature coefficient of double glass modules. Only the temperature coefficient of the front side will be measured.

4.3 Maximum power output under different temperature and irradiance level

Irradiance	Spectrum	Module temperature			
		15°C	25°C	50°C	75°C
1100	AM1.5	N/A			
1000	AM1.5				
800	AM1.5				
600	AM1.5				
400	AM1.5				N/A
200	AM1.5			N/A	N/A
100	AM1.5			N/A	N/A

Test Report



File No.: PVP08087/21P-01

Test Report No.: TRPVP08087/21P/01

5. Samples

Sample #	Module type	Sample S/N	Dimension (l x w x h) [mm]	Remark
1	APSAP6-335/72	93359001-021325288	1985 x 1000 x 35	4.1, 4.2, 4.3

6. Test results

6.1 Maximum power determination

Test date [MM/DD/YYYY]..... :		12/01/2021				
Module temperature [°C]		25				
Irradiance [W/m ²]		1000				
Sample #	Voc [V]	Vmpp [V]	Isc [A]	Impp [A]	Pmpp [W]	FF [%]
1	46.59	38.18	9.34	8.80	336.0	77.27
Supplementary information: The tests are performed according to requirement of client application. The measurements were performed with a pulsed solar simulator class AAA according to IEC 60904-9:2007.						

Test Report



File No.: PVP08087/21P-01

Test Report No.: TRPVP08087/21P/01

6.2 Measurement of temperature coefficients

Test date [MM/DD/YYYY].....:		12/03/2021
Irradiance [W/m²]		Corrected to 1000
Module temperature [°C] / high - low...:		55.0 - 25.0
Sample #	Item	Measured [%/°C]
1	α	0.036
	β	-0.255
	γ	-0.352
Supplementary information: α - Current temperature coefficient β - Voltage temperature coefficient γ - power temperature coefficient		

Test Report



File No.: PVP08087/21P-01

Test Report No.: TRPVP08087/21P/01

6.3 Maximum power output under different temperature and irradiance level

Sample 1

Test date [MM/DD/YYYY].....:		12/03/2021				
Module temperature [°C]		Corrected to 15				
Corrected Irradiance [W/m ²]	Voc [V]	Vmpp [V]	Isc [A]	Impp [A]	Pmpp [W]	FF [%]
100	43.45	36.81	0.89	0.87	32.0	82.28
200	44.75	37.60	1.87	1.78	67.0	80.31
400	45.88	38.19	3.74	3.58	136.9	79.70
600	46.65	38.76	5.55	5.29	205.1	79.26
800	47.22	39.15	7.35	6.98	273.1	78.74
1000	47.67	39.65	9.13	8.61	341.2	78.35
1100	N/A	N/A	N/A	N/A	N/A	N/A

Test date [MM/DD/YYYY].....:		12/03/2021				
Module temperature [°C]		Corrected to 25				
Corrected Irradiance [W/m ²]	Voc [V]	Vmpp [V]	Isc [A]	Impp [A]	Pmpp [W]	FF [%]
100	42.85	36.18	0.90	0.87	31.3	81.21
200	43.54	36.65	1.90	1.80	65.9	79.53
400	44.77	37.02	3.83	3.64	134.9	78.66
600	45.57	37.457	5.68	5.40	202.1	78.12
800	46.11	37.73	7.54	7.14	269.2	77.48
1000	46.59	38.18	9.34	8.80	336.0	77.27
1100	49.65	38.43	9.62	9.61	369.3	77.32

Test date [MM/DD/YYYY].....:		12/03/2021				
Module temperature [°C]		Corrected to 50				
Corrected Irradiance [W/m ²]	Voc [V]	Vmpp [V]	Isc [A]	Impp [A]	Pmpp [W]	FF [%]
100	N/A	N/A	N/A	N/A	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A
400	42.09	33.71	3.81	3.70	124.6	77.72
600	42.58	34.09	5.72	5.47	186.6	76.57
800	43.13	34.55	7.61	7.19	248.6	75.69
1000	43.67	35.04	9.45	8.85	310.1	75.16

Test Report



File No.: PVP08087/21P-01

Test Report No.: TRPVP08087/21P/01

1100	44.09	35.33	10.31	9.64	340.3	74.85
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Test date [MM/DD/YYYY].....:			12/03/2021			
Module temperature [°C]			Corrected to 75			
Corrected Irradiance [W/m²]	Voc [V]	Vmpp [V]	Isc [A]	Impp [A]	Pmpp [W]	FF [%]
100	N/A	N/A	N/A	N/A	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A	N/A
600	39.72	30.27	5.77	5.52	167.1	72.91
800	40.35	30.73	7.63	7.24	222.5	72.30
1000	40.80	31.31	9.48	8.88	277.9	71.87
1100	40.96	31.65	10.40	9.59	303.5	71.29

Relative efficiency under different Irradiance at 25°C

Irradiance [W/m²]	100	200	400	600	800	1000	1100
Pmpp [W] (Scaled results)	33.6	67.2	134.4	201.6	268.8	336.0	369.6
Pmpp [W] (Lab results)	31.3	65.9	134.9	202.1	269.2	336.0	369.3
Relative efficiency [%]	-6.85	-1.93	0.37	0.25	0.15	0	-0.08

Supplementary information:

Scaled results: $P_{mpp} (Scaled\ results) = \frac{Irradiance}{1000W/m^2} \times P_{mpp\ at\ 1000W/m^2}$

Relative efficiency = $\frac{P_{mpp} (Lab\ results) - P_{mpp} (Scaled\ results)}{P_{mpp} (Scaled\ results)}$

Test Report



File No.: PVP08087/21P-01

Test Report No.: TRPVP08087/21P/01

Annex 1: List of measurement equipment

No.	Equipment	Identification	Next calibration date
1	Pulsed solar simulator	HYJC-YS-021	03/25/2022
2	High temperature chamber	HYJS-YS-123	09/08/2022

File No.: PVP08087/21P-01

Test Report No.: TRPVP08087/21P/01

Annex 2: Statement of the estimated uncertainty of the test results

The total measuring uncertainty of P_{mpp} is $\leq 2.12\%$

The total measuring uncertainty of I_{sc} is $\leq 2.26\%$

The total measuring uncertainty of V_{oc} is $\leq 0.98\%$

Annex 3: IV measurement characteristics



Sample 1#

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Australian Premium Solar (India) Pvt. Ltd.

Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat
India

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2022-05-20

Valid until: 2027-05-19

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-02 Rev. 00 (IEC TS 62804-1:2015 modified)
Remark:	Test temperature: 85°C; Relative humidity: 85%; Test duration: 96 hours.
Registered No.:	44 780 22 406749 - 089
Manufacturer:	see Annex 1
Test Report No.:	492012025.001
File No.:	PVP08087/21P-05



Essen, 2022-05-20

TÜV NORD CERT GmbH
Certification Body
Consumer Products

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer: **Australian Premium Solar (India) Pvt. Ltd.**
Nr. GEB Substation, N.H. No.8, At-Tajpur, Ta-Prantij, Dist-Sabarkantha,
383205, Gujarat, India

Factory inspection report no.: 862010589.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

Description of product(s):

Module types:	PV Modules with 6" Poly-crystalline Silicon Solar Cells: 72 cells: APSAP6-xxx/72 (xxx = 330 - 350, in increment of 5) 66 cells: APSAP6-xxx/66 (xxx = 300 - 320, in increment of 5) 60 cells: APSAP6-xxx/60 (xxx = 275 - 290, in increment of 5)
Maximum system voltage:	1000V
Fuse rating:	15A
Application class:	Class A
Electrical protection class:	Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.

Certificate of Registration



QUALITY MANAGEMENT SYSTEM

Australian Premium Solar India Pvt Ltd.

At & Post: TAJPUR, NH-08, Prantij, Dist : Sabarkantha,
Gujarat 383205, India.

SCOPE

"Manufacturer And Supplier Of Solar Panels, Solar Inverters And Allied Products
Cess Qualification WPS,PQR, WPQ, U Stamp Consultancy"

This is to certify that the Quality Management System of the above mentioned Organization
meets the requirement of

ISO 9001:2015

MS: 65290921

Certificate Number

10 September 2021

Date of Initial Certification

16 September 2022

Date of Last Issue

09 September 2023 ♦

Date of Expiry

Signed on behalf of M/S OSS Certification Services Pvt. Ltd.

♦ Certificate is **Valid for 3 Years (10-09-2021 to 09-09-2024)** From the **Date of Initial Certification**. Upon Successful **Completion of 2nd Surveillance Audit** a **New Certificate** with an **Extended Validity** shall be issued.



M/S OSS Certification Services Pvt. Ltd.

301 & 304, Kartik Plaza, Amberhai Extension, Plot No.16 & 17, Sector-19, Dwarka, New Delhi-110075.

www.oss-certification.com

Accreditation by the Joint Accreditation System of Australia and New Zealand

www.jas-anz.org/register

Rev. 01, dt.16.09.2022

CERTIFICATE

Certificate of Registration

This is to Certify that
Environmental Management System of

AUSTRALIAN PREMIUM SOLAR (INDIA) PVT. LTD.

AT: TAJPUR, NATIONAL HIGHWAY NO 08, TA: PRANTIJ, DIST:
SABARKANTHA PIN CODE: 383205, GUJARAT, INDIA.

has been assessed and found to conform to the requirements of

ISO 14001:2015

for the following scope :

MANUFACTURING AND SUPPLIER OF SOLAR PANELS, SOLAR INVERTERS
AND ALLIED PRODUCTS.

Certificate No : **21IEGW80**

Initial Registration Date : 08/04/2021

Issuance Date : 08/04/2021

Date of Expiry : 07/04/2024

1st Surve. Due : 08/03/2022

2nd Surve. Due : 08/03/2023



Director



ACCREDITED
Management Systems
Certification Body
MSCB-119



AQC MIDDLE EAST LLC

Head Office: Office No. 02, Ground Floor, Sharjah Media City, Sharjah, UAE. e-mail: info@aqcworld.com

Key Location: A-60, Sector - 2, Noida, Uttar Pradesh, 201301, India.

*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date. (In case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn).

Certificate Verification: Please Re-check the validity of certificate at <http://www.aqcworld.com/activeclients.aspx> or info@aqcworld.com at Active Clients.
Certificate is the property of AQC Middle East LLC and shall be returned immediately when demanded