



# Certificate of Compliance

Certificate: 2706862

Master Contract: 260407 (260407)

Project: 70173574

Date Issued: 2018-02-12

Issued to: **REC Solar PTE. LTD.**  
**20 Tuas South Avenue 14**  
**Singapore, Singapore 637312**  
**SINGAPORE**  
Attention: Jeannie Yong

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



Issued by: *Chao (Chris) Wang*  
Chao (Chris) Wang

## PRODUCTS

CLASS - C531110 - POWER SUPPLIES-Photovoltaic Modules and Panels

CLASS - C531190 - POWER SUPPLIES-Photovoltaic Modules and Panels - Certified to US Standards

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc or 1500 V dc, and Type 1 or Type 2 module fire performance.

1. Model series RECxxx (where xxx is the power output from 214 W to 285 W), followed by PE, PE BLK or PE Z-Link

### Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (A dc)	Short Circuit Current at STC, (A dc)	Rated Maximum Power At STC, (Watts)
REC214PE series	36.2	28.2	7.60	8.10	214
REC215PE series	36.3	28.3	7.60	8.10	215
REC220PE series	35.9	28.6	7.71	8.26	220
REC225PE series	36.2	29.2	7.87	8.48	225
REC230PE series	36.4	29.2	7.98	8.59	230
REC235PE series	36.6	29.5	8.06	8.66	235
REC240PE series	36.8	29.7	8.17	8.75	240



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Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC245PE series	37.1	30.1	8.23	8.80	245
REC250PE series	37.4	30.2	8.30	8.86	250
REC255PE series	37.6	30.5	8.42	8.95	255
REC260PE series	37.8	30.7	8.50	9.01	260
REC265PE series	38.1	30.9	8.58	9.08	265
REC270PE series	38.4	31.3	8.66	9.18	270
REC275PE series	38.7	31.5	8.74	9.25	275
REC280PE series	38.9	31.7	8.85	9.35	280
REC285PE series	39.1	31.9	8.95	9.45	285

2. Model series RECxxx (where xxx is the power output from 245W to 260W), followed by PE BLK2  
Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC245PE BLK2 series	37.3	30.5	8.04	8.70	245
REC250PE BLK2 series	37.5	30.6	8.18	8.76	250
REC255PE BLK2 series	37.7	30.7	8.32	8.83	255
REC260PE BLK2 series	37.9	30.8	8.47	8.88	260

3. Model series RECxxx (where xxx is the power output from 245 W to 270 W), followed by PE Z-LINK-S  
Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC245PE Z-Link-S	37.2	29.8	8.23	8.90	245
REC250PE Z-Link-S	37.5	30.1	8.31	8.90	250
REC255PE Z-Link-S	37.6	30.8	8.28	8.76	255
REC260PE Z-Link-S	38.3	31.0	8.39	9.09	260
REC265PE Z-Link-S	38.3	31.0	8.55	9.26	265
REC270PE Z-Link-S	38.3	31.3	8.71	9.43	270

4. Model series RECxxx (where xxx is the power output from 285 W to 325 W), followed by PE 72, PE 72 BLK, PE 72 BLK2, PE 72 XV  
Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power at STC, (Watts)
REC285PE 72 series	43.9	35.4	8.06	8.66	285
REC290PE 72 series	44.2	35.6	8.17	8.75	290
REC295PE 72 series	44.5	36.1	8.18	8.71	295



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Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power at STC, (Watts)
REC300PE 72 series	44.9	36.5	8.22	8.76	300
REC305PE 72 series	45.2	36.9	8.27	8.82	305
REC310PE 72 series	45.5	37.2	8.34	8.88	310
REC315PE 72 series	45.8	37.5	8.40	8.93	315
REC320PE 72 series	46.1	37.9	8.45	8.99	320
REC325PE 72 series	46.4	38.5	8.46	9.05	325

5. Model series RECxxx (where xxx is the power output from 260 W to 300 W), followed by TP, TP BLK, TP IQ, TP BLK IQ

**Electrical Ratings:**

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power at STC, (Watts)
REC260TP series	38.0	30.8	8.45	9.13	260
REC265TP series	38.3	31.1	8.53	9.21	265
REC270TP series	38.6	31.2	8.66	9.29	270
REC275TP series	38.8	31.4	8.76	9.40	275
REC280TP series	39.2	31.9	8.78	9.44	280
REC285TP series	39.5	32.1	8.90	9.54	285
REC290TP series	39.7	32.3	8.98	9.62	290
REC295TP series	39.9	32.4	9.11	9.70	295
REC300TP series	40.1	32.6	9.21	9.76	300

6. Model series RECxxx (where xxx is the power output from 260 W to 330 W), followed by TP2, TP2 BLK, TP2 IQ, TP2 BLK IQ, TP2S, TP2S BLK, TP2S IQ, TP2S BLK IQ

**Electrical Ratings:**

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power at STC, (Watts)
REC260TP2 series	37.5	30.7	8.48	9.18	260
REC265TP2 series	37.8	30.9	8.57	9.21	265
REC270TP2 series	38.0	31.2	8.67	9.29	270
REC275TP2 series	38.2	31.5	8.74	9.52	275
REC280TP2 series	38.4	31.7	8.84	9.61	280
REC285TP2 series	38.6	31.9	8.95	9.66	285
REC290TP2 series	38.8	32.1	9.05	9.71	290
REC295TP2 series	39.0	32.3	9.14	9.76	295
REC300TP2 series	39.2	32.5	9.24	9.82	300
REC305TP2 series	39.4	32.7	9.33	9.89	305
REC310TP2 series	39.6	32.9	9.43	9.94	310
REC315TP2 series	39.8	33.1	9.52	10.00	315
REC320TP2 series	40.0	33.3	9.61	10.06	320



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REC325TP2 series	40.2	33.5	9.71	10.11	325
REC330TP2 series	40.4	33.6	9.83	10.17	330

7. Model series RECxxx (where xxx is the power output from 265 W to 290 W), followed by TP2 BLK2, TP BLK2, TP2S BLK2

Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power at STC, (Watts)
REC265TP2 BLK2 series	37.8	31.2	8.50	9.07	265
REC270TP2 BLK2 series	38.0	31.4	8.61	9.18	270
REC275TP2 BLK2 series	38.2	31.6	8.71	9.28	275
REC280TP2 BLK2 series	38.4	31.8	8.82	9.39	280
REC285TP2 BLK2 series	38.6	32.0	8.92	9.49	285
REC290TP2 BLK2 series	38.8	32.2	9.02	9.60	290
REC295TP2 BLK2 series	39.0	32.4	9.12	9.70	295
REC300TP2 BLK2 series	39.2	32.6	9.21	9.80	300

8. Model series RECxxx (where xxx is the power output from 280 W to 295 W), followed by TP2L, TP2L BLK, TP2SL, TP2SL BLK, TP2SL BLK2

Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power at STC, (Watts)
REC280TP2Lseries	39.2	31.9	8.78	9.44	280
REC285TP2Lseries	39.5	32.4	8.80	9.50	285
REC290TP2Lseries	39.8	32.7	8.87	9.56	290
REC295TP2Lseries	40.1	33.0	8.94	9.62	295

9. Model series RECxxx (where xxx is the power output from 275 W to 320 W), followed by TP2M, TP2M BLK, TP2SM, TP2SM BLK

Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power at STC, (Watts)
REC275TP2M series	38.4	32.0	8.60	9.11	275
REC280TP2M series	38.6	32.2	8.71	9.20	280
REC285TP2M series	38.8	32.4	8.81	9.32	285
REC290TP2M series	39.0	32.6	8.90	9.45	290
REC295TP2M series	39.2	32.8	9.00	9.58	295
REC300TP2M series	39.5	33.0	9.10	9.70	300
REC305TP2M series	39.7	33.3	9.17	9.80	305
REC310TP2M series	39.8	33.5	9.26	9.90	310



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REC315TP2M series	39.9	33.7	9.36	10.05	315
REC320TP2M series	40.0	33.9	9.45	10.17	320

10. Model series RECxxx (where xxx is the power output from 270 W to 320 W), followed by TP2M BLK2, TP2SM BLK2

Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power at STC, (Watts)
REC270TP2M BLK2 series	38.2	31.8	8.50	9.02	270
REC275TP2M BLK2 series	38.4	32.0	8.60	9.11	275
REC280TP2M BLK2 series	38.6	32.2	8.71	9.20	280
REC285TP2M BLK2 series	38.8	32.4	8.81	9.32	285
REC290TP2M BLK2 series	39.0	32.6	8.90	9.45	290
REC295TP2M BLK2 series	39.2	32.8	9.00	9.58	295
REC300TP2M BLK2 series	39.5	33.0	9.11	9.70	300
REC305TP2M BLK2 series	39.7	33.3	9.17	9.80	305
REC310TP2M BLK2 series	39.8	33.5	9.26	9.90	310
REC315TP2M BLK2 series	39.9	33.7	9.36	10.05	315
REC320TP2M BLK2 series	40.0	33.9	9.45	10.17	320

11. Model series RECxxx (where xxx is the power output from 320 W to 370 W), followed by PEM 72, PEM 72 BLK

Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC320PEM 72	45.4	37.3	8.58	9.27	320
REC325PEM 72	45.6	37.5	8.67	9.32	325
REC330PEM 72	45.8	37.7	8.76	9.36	330
REC335PEM 72	46.0	37.9	8.84	9.40	335
REC340PEM 72	46.8	37.8	9.00	9.60	340
REC345PEM 72	47.1	38.0	9.10	9.65	345
REC350PEM 72	47.2	38.1	9.20	9.73	350
REC355PEM 72	47.4	38.2	9.30	9.78	355
REC360PEM 72	47.6	38.4	9.38	9.84	360
REC365PEM 72	47.9	38.7	9.44	9.90	365
REC370PEM 72	48.2	38.9	9.52	9.97	370

12. Model series RECxxx (where xxx is the power output from 310 W to 370 W), followed by TP 72, TP 72 BLK, TP 72 BLK2, TP2S 72, TP2S 72 BLK, TP2S 72 BLK2

Electrical Ratings:



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Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC310TP 72	45.0	36.8	8.43	9.02	310
REC315TP 72	45.3	37.2	8.47	9.07	315
REC320TP 72	45.6	37.6	8.52	9.12	320
REC325TP 72	45.9	38.0	8.56	9.19	325
REC330TP 72	46.0	38.1	8.67	9.44	330
REC335TP 72	46.2	38.3	8.75	9.52	335
REC340TP 72	46.3	38.5	8.84	9.58	340
REC345TP 72	46.5	38.7	8.92	9.64	345
REC350TP 72	46.7	38.9	9.00	9.72	350
REC355TP 72	46.8	39.1	9.09	9.78	355
REC360TP 72	47.0	39.3	9.17	9.85	360
REC365TP 72	47.2	39.5	9.25	9.92	365
REC370TP 72	47.3	39.7	9.33	9.99	370

13. Model series RECxxx (where xxx is the power output from 260 W to 295 W), followed by PEM, PEM BLK, PE Z-Link-M

Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC260PEM	37.1	30.1	8.64	9.14	260
REC265PEM	37.4	30.5	8.69	9.19	265
REC270PEM	37.7	30.9	8.74	9.24	270
REC275PEM	38.0	31.3	8.79	9.29	275
REC280PEM	38.3	31.7	8.84	9.34	280
REC285PEM	38.6	32.1	8.88	9.39	285
REC290PEM	39.0	32.5	8.93	9.45	290
REC295PEM	39.4	32.9	8.97	9.49	295

14. Model series RECxxx (where xxx is the power output from 260 W to 290 W), followed by PEM BLK2

Electrical Ratings:

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC260PEM BLK2	37.4	30.7	8.47	9.09	260
REC265PEM BLK2	37.7	31.0	8.55	9.14	265
REC270PEM BLK2	38.0	31.3	8.63	9.19	270
REC275PEM BLK2	38.3	31.6	8.71	9.24	275
REC280PEM BLK2	38.6	32.0	8.76	9.29	280
REC285PEM BLK2	39.0	32.4	8.80	9.35	285
REC290PEM BLK2	39.4	32.8	8.85	9.39	290



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15. Model series RECxxx (where xxx is the power output from 350 W to 380 W), followed by TP2M 72, TP2M 72 BLK, TP2M 72 BLK2, TP2SM 72, TP2SM 72 BLK, TP2SM 72 BLK2

**Electrical Ratings:**

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (ADC)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC350TP2M 72	47.0	39.0	8.98	9.55	350
REC355TP2M 72	47.2	39.2	9.06	9.65	355
REC360TP2M 72	47.4	39.4	9.14	9.74	360
REC365TP2M 72	47.6	39.6	9.22	9.82	365
REC370TP2M 72	47.8	39.8	9.30	9.85	370
REC375TP2M 72	48.0	40.1	9.36	9.96	375
REC380TP2M 72	48.2	40.3	9.43	10.05	380

16. Model series RECxxx (where xxx is the power output from 315 W to 340 W), followed by TP2SB 72 XV

**Electrical Ratings:**

Model	Open Circuit Voltage at STC, (Vdc)	Rated Voltage at STC, (Vdc)	Rated Current at STC, (Adc)	Short Circuit Current at STC, (Adc)	Rated Maximum Power At STC, (Watts)
REC315TP2SB 72 XV	45.8	37.1	8.50	9.00	315
REC320TP2SB 72 XV	46.1	37.4	8.56	9.09	320
REC325TP2SB 72 XV	46.3	37.8	8.62	9.18	325
REC330TP2SB 72 XV	46.6	38.1	8.67	9.28	330
REC335TP2SB 72 XV	46.8	38.4	8.74	9.36	335
REC340TP2SB 72 XV	47.0	38.6	8.82	9.44	340

**Notes:**

- Rated electrical characteristics are within +/-10% of measured values at Standard Test Conditions of 100 mW/cm<sup>2</sup> irradiance, AM 1.5 spectrum, and cell temperature of 25°C.
- Model numbers may be followed by suffixes US, ECO, EVO, BLK, BLK2, Q2, Q3, XV, Z-LINK, Z-LINK-M, IQ, 2, S and 2L or a combination of these.
- XV models are for modules used in maximum system of 1500 V dc.
- Module Fire Performance:
  - All models except XV models are Type 1 or 2 Fire performance class rated.
  - All XV models are Type 1 Fire performance class rated.

**APPLICABLE REQUIREMENTS**

ULC/ORD- C1703-01 - Flat-Plate Photovoltaic Modules and Panels  
 UL 1703-3<sup>rd</sup> Edition - Flat-Plate Photovoltaic Modules and Panels





## Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

Project	Date	Description
70173574	2018-02-12	Update report to add alternative cell and interconnection ribbon. Update Factory Dielectric Voltage Withstand Test and Factory Wet Insulation-Resistance Test based on UL 1703 revisions dated September 13, 2017. Update report to add alternative cell and interconnection ribbon. Update Factory Dielectric Voltage Withstand Test and Factory Wet Insulation-Resistance Test based on UL 1703 revisions dated September 13, 2017.
70168217	2017-12-28	Update Report 2706862 to add an alternate junction box "JM17B" and an alternate backsheet "Coveme dyMat PYE MONO L PLUS".
70157777	2017-10-10	Update report 2706862 to include following content: New backsheet AGFA UNIQOAT 315 with F406P/F806P EVA; New combination AGFA backsheet with HEP-04T/HEF-04W EVA; New combination COVEME dyMat PYE MONO L backsheet with HEP-04T/HEF-04W EVA.
70156199	2017-09-19	Update report to include higher power output for TP2 series, and with some minor updates/corrections.
70150490	2017-08-02	Update report to add an alternative cell (bifacial cell 5HAxx) and transparent backsheet (Coveme dyMAT Clr HDPYE L).
70146162	2017-07-17	Update Report 2706862 with following content: New combination of already approved Coveme, dyMat HDPYE SPV L Backsheet with already approved HW HEP-04T (front) / HEF-04W (back) EVA; New combination of already approved Crown BE350X Backsheet with already approved HW HEP-04T (front) / HEF-04W (back) EVA and new Bluestar CAF-510 Frame adhesive.
70138435	2017-05-26	Update report 2706862 with following content: New combination of already approved adhesive/j-Box/Backsheet - HT-8258 adhesive/Filmcutter backsheet /Tonglin 040R Jbox; New combination of already approved adhesive/j-Box/Backsheet - HT-8258 adhesive/Filmcutter backsheet/UKT Jbox; New mounting zone (Yellow Zone) testing for TP2S 72XV with 2400 Pa Load, updated installation manual enclosed; Increase of power class for PE Series to 285 (based on previously tested 72 cell module @ 315 W); Alternative Bypass Diode for j-box TL-BOX029G series (component Certificate and UL report attached); Revised combinations under item 21 (table for Jbox adhesive).
70132100	2017-04-27	Update report 2706862 with following content: Qualification of new BS





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		<p>EVA combination for already approved EVA Hanwha L&amp;C, HEP-04T (front) + Hanwha L&amp;C, HEF-04W (back) with already approved Crown Advanced Material Co., Ltd, Crown BO-L2 backsheet; Addition of new Model - RECxxxTP2S, same as RECxxxTP2 except it uses 30 mm frame; Addition of Alternative connector TL-Cable01S-FR together with Jboxes (TL-BOX029G T/F, UKT PV-JB07B, JM17, TL-BOX040R T/F) - All the UL approval letters are attached at JBox level; Cell name change for VINA cell - Cell name change (Cell Product Code P6NVC-4 will be changed to VC6P4-C); Corrections/Missed out items from last updates for item 9 and item 21.</p>
70122839	2017-02-27	<p>Update Report 2706862 with following items: - New backsheet Coveme dyMat PYE Mono L with First EVA 406P (Top) / 806P(bottom) and JM17 JBox with new JSTC Jbox adhesive and potting and new frame adhesive - Above backsheet with First EVA 406P (Top) / 806W (Bottom) with Tonglin JBox with new JSTC Jbox adhesive and potting and JSTC frame adhesive - New combination of JM17 Jbox with Tonsan Jbox adhesive and Coveme dyMat PYE Mono L Backsheet. (all are certified separately, testing the combination) - New combinations of j-box, adhesive, potting and four backsheets (all are certified separately, testing the combination) - Addition of similar models with approved 30 mm frame</p>
70117255	2017-01-22	<p>Update Report 2706862 for following items: 1. New back sheet CROWN BE350X 2. New back sheet Coveme dyMat HDPYE SPV L 3. Addition of a new model for marketing reasons – series TP2S series 4. Some missing items from last update</p>
70115271	2017-01-10	<p>Update report to add new EVA Su-406P + HEF-04W, new REC 5BB cell 5AAXx, new Crown backsheet BO-L2, new combination, new frame sealant, new TL-Cable01S connector to JM17 Jbox and extend the watt class for TP2 family, correct the watt class for TP2M family.</p>
70108958	2016-12-04	<p>Update report 2706862 to add alternate 30 mm frame with support bar and 3.2 mm glass front materials for 72 cell sized models, add modules for 1500 V dc maximum system voltage with junction box ‘Tonglin TL-BOX029G-1xyzF,-2xF,-3xyzF’, addition of New REC Mono-crystalline Si, 4BB; 4AHXX Cell, other revise for the styles change and clarification of the previous version.</p>
70103224	2016-10-23	<p>Update report 2706862 for the following content: New EVA o HEP-04T and HEF-04W + Coveme dyMat PYE SPV (2016-40014) o HEP-04T and HEF-04W + Madico Reflekt Light (2016-40015) - TL-BOX040R-xyzF J-box for 1500V o TL-BOX040R-xyzT box was tested 1500V dry hipot, wet leakage after HF10 (226288-1) - QL W185-B75 (Black backsheet) o Identical to qualified backsheet QL W185-W75 except the color (declaration from Toyal is attached) - New Model - RECxxxPE Z-LINK-M o Using Zlink frame to qualified PEM model - New Model - RECxxxPE2 o Larger dimension compared to PE model Addition of large size cells 160 x 160 mm</p>
70098253	2016-09-29	<p>Update report 2706862: Three identical reports for new cells (Reports 00002,</p>



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225657 and 225945). Please note, the lab did not perform the VCPM test at NOCT but they have been instructed to do so for all future projects. TC200 is still under discussion and not done. 3. Three identical reports for three new junction boxes (Reports 00005, 00007 and 226228). Though only HF10 and Wiring Compartment securement test, is required on an approved junction box, we have done Temperature test and Reverse Current overload tests. 4. Three identical reports to approve an alternative adhesive with the above three junction boxes. Only HF10 with Wiring Compartment securement test was done. 5. Test for an alternative frame adhesive - HF10 and mechanical load test was done. a letter from Tonglin modifying some part numbers for the junction boxes. Also attached is an installation manual for the new series TP2L, introducing a new series of modules TP2L which is identical to TP2 series except little larger (6.25% increase in length, 2% increase in width) in size.

70092255	2016-08-10	Update report 2706862 to cover new series RECxxxPEM, RECxxxPEM BLK2, RECxxx TP2M 72, based on the already tested and listed series of modules, qualification for combination of already approved substrate 'Coveme dyMat PYE SPV' and EVA 'F406P/ F806W', remove some redundant tables from the front as the modules, add some notes to differentiate and explain the model numbers and deleted the earlier explanation, Addition of a type number for the frame tape where the manufacturer of the tape has changed the type number base on Letter from manufacturer 'Lohmann', also add two installation manuals: one for the PEAK series is a replacement but the other one for the Twin Peak.
70087281	2016-07-13	Update report to add alternate 4BB cell 'NP6Q' by Neo Solar Power combined with First EVA 'F406P/F806P, add superstrate 'ACHT AR-coated solar glass 3.05mm thickness by Henan Ancai Hi-Tech Ltd' and frame 30 mm height to product name as 'RECxxxTP2', Qualification of 72 cell sized RECxxxTP model (144 half cut cells) combined with SKC EF2T (600µm, Top) & Hanwha HEF-04 (450µm, Bottom)new product name as 'RECxxxTP 72', 40 mm frame with sealant. The tested BOM is representative for the other 72 cell sized model BOM's for qualification of cell, New Jbox Adhesive : Tonsan Adhesive Inc.; 1527 with Box TL-BOX029G -1, -2 and -3 and Backsheet Toyo Alu, QPL-W50-T125-W100 New Jbox potting material: Tonsan potting material 1521 for Jbox TL-BOX029G -1, -2 and -3.
70083904	2016-06-25	Update report for addition of new silicone as frame adhesive, Adding Fire rating Type 2 for Madico Reflekt Light Backsheet, Adding thicker front EVA for Hangzhou First EVA F406P (front, 600µm), To include the thicker front EVA for First F406P, Addition of new cell and new Model name with increase in size, Addition of new EVA Hangzhou F806W with Coveme dyMat PYE SPV backsheet.
70073535	2016-04-26	(VDE 220532) Add Hangzhou Backsheet in combination with Hangzhou F806 P bottom EVA and qualification of UKT Jbox for Otto Chemie Novasil S56 Jbox adhesive. (VDE 223797) Qualify Junction Box adhesive 1527 + pottant 1521 with Toyal W100 + Jbox 026, qualify Jbox adhesive 1527 +



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		pottant 1521 with dyMat PYE SPV + Jbox 026, and add new product name with darker cells (Cells will be the same used in TP modules, hand picked darker cells).
70067362	2016-03-16	Update Report to include new frame drawing for the 60-cell modules, and to include the new frame design of 40mm for the 72-cell modules. VDE Project/PO #221345 & #222417.
70063281	2016-02-18	Update Report to add alternate "Reflekt Light" backsheet, change company name - "Flat Solar Glass Group Co., Ltd." to "Flat Glass Group Co., Ltd.", update electrical parameter changes to Z-Link-S module series, and change for Z-Link-S Cross connector 3.0mm x 0.3mm is used as connection between strings, while a 5.0mm x 0.3mm connection is used to connect to the J-box.
70061056	2016-01-28	Update Report to; Modify Fire Class description, Add pre-crimp frame with sealant, amend interconnect and cross connector descriptions, and add E-Solar factory, previously inspected and listed by CSA for another manufacturer, and the factory HF10 test qualification. VDE Purchase Orders; 219042 and 220430.
70056028	2015-12-11	Add alternate VINA SOLAR factory and update Certification Report for cell manufacturer and other minor changes.
70050378	2015-11-12	Update 3 - Update Fire rating for PE Zlink-S and PE 60 with Filmcutter backsheet, new frame design fro PE Zlink-S, new cell, and power upgrade for TP to 295W.
70050364	2015-11-04	Update 2 - • Update Certification File 2706862/Report 70048736 • New Watt Class (325 W) for RECxxxPE72 series modules to CSA report – HS test is required. • Adding ACHT 4 mm glass to 72 cells to CSA (Henan Ancai Hi-Tech Co) – already qualified as 3.2 mm glass for the 60 cell modules – change the glass supplier, No test is required. • Updating Electrical parameters for PE Blk2 – Report update • Xinyi glass, new supplier for both 3.2 & 4mm – same glass structure as the already qualified glass, just a new supplier – change the glass supplier. No test is required • Adding Coveme SPV 305, increase in the Primer (EVA) by 10µm – No retest required. • ICB thickness Reduction – HS, TC, RCOL testing required • Adding new CM cells to CSA report (CSA/UL1703 Hotspot on 72 Cell Modules (Linio, Shunfeng, Tainergy)) – tests were done on 60-cell in previous project. Just added HS for 72-cell. • Adding Motech 4 BB cell to CSA report
70048736	2015-10-19	Update Descriptive Report 2706862 to: 1. add alternate combination of Toyal backsheet + First EVA 2. update Fire rating for PE72XV module model for Type 1/class C with WFCi fire test report 3. update miscellaneous typos 4. add Z-Link (file transfer from UL)
70042624	2015-08-14	Update Certification Report to reflect the following changes; 1. REC - Alternate Cell for 60 Cell modules. (Shunfeng (SF-PV) / M-C219.2-FB-3BB-90G / 3BB / Multi-Si) 2. REC - alternative connector type UTX, produced by Amphenol Technology (Shenzhen) Co., Ltd., rated 1000V, 30 A to the Module type RECxxxTP, RECxxxTP BLK, RECxxxTP BLK2 series



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		3. REC - Addition of RECxxxPE 72 XV modules to the models with 1000 VDC System Voltage. BOM is identical except for the backsheet.
70039792	2015-07-28	Update Report 2706862 to add alternate SKC CO. LTD.EVA 0.60mm thickness
70032330	2015-05-13	Update Descriptive Test Report #2706862 for one alternate EVA, two alternate poly cell suppliers, two alternate EVA/Backsheet combinations, Module Fire Performance Type
70026747	2015-04-10	Update Report 2706862 to include two module series, alternative cells, alternative JBox and connectors and black on cell side backsheet where white backsheet already certified.
70018329	2014-12-18	Update Report 2706862 to include two alternative cells, alternative backsheet with two different backsheet combinations.
2760933	2014-09-23	Update Report 2706862 to add alternative encapsulant and alternative backsheet for 1000V module series.
2750893	2014-07-31	Update to include alternative back sheet, EVA and solder composition.
2706862	2014-03-24	Photovoltaic Modules, Model series RECxxx. (C/US) (Transfer from UL to CSA for PE series of PV modules)