



ATME

College of Engineering

o/c



Affiliated to Visvesvaraya Technological University, Belgaum; Approved by AICTE, Delhi and Recognised by Government of Karnataka

Ref. No.: ATME (T)/RDWA/16-17/SRTPV/1607026

3

REVISED DETAILED WORK AWARD

M/s Evervolt Solar Private Limited,
Regd. Office: No.331, 1st Floor, 1st Main,
5th Cross, Pipeline Road, Vijayanagar,
Bangalore-560 040

Date: 05-07-2016
Place: Mysore

Dear Sir,

Sub: SUPPLY AND INSTALLATION OF 95KWP SOLAR PLANT WITH ALL COMPONENTS.

Ref: 1) Your quotation dtd: 13-06- 2016

2) Your revised quotation dtd: 28-06-2016

3) Our Ref. No: Ref. No.: ATME (T)/PO/16-17/SRTPV/1607012, Dated: 02-07-2016

With reference to the above subject and correspondence cited in reference (1) to (3) and the subsequent discussion with Mr. Krishna Thimmaiah, Director of Evervolt Solar Private Limited on 04-07-2016, we are placing a revised detailed work award which supersedes all earlier DWA for supply and installation of 95KWP Solar Plant with all components **suitable for mounting on elevated MS structural canopy** as detailed below.

Sl. No.	Component	Quantity	Specification	Make
1.	PV Module	95kWp	Polycrystalline Solar Panels with Aluminium Frame and white back sheet	Seraphim
2.	Solar Inverter	90-100kWp	Grid-tied String Inverters	Good We/ CESCO Approved
3.	Solar panels shall be erected on the elevated M.S Structure provided by customer	As per design	All materials / Consumables required for fitting the panels on to the elevated M.S. Canopy shall be supplied by the agency	Reputed
4.	Connectors	As per design	MC4	Lapp/Reputed
5.	AIR with SPD	As per design	IP 65 Enclosure, Isolated type 5 in 5 Out, SPD - 1000 V DC, Type II, Fuse - 15A/1000V DC	Reputed
6.	DC Cables	As Required	4Sq.mm, 1C, Un-Armoured, XLPE, Cu	Siechem/Lapp/ Reputed
7.	ACDB with SPD	As per design	415V, MCB - 40A 4P 43A, SPD- 415V, 3P, Type II	Reputed
8.	PDB	1 No	IP 65, MCCB 415V-250A, 3 In 1 Out	Reputed

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9.	AC Cables	As Required	16Sq.mm, 4C, Armoured, XLPE, Cu	Lapp/Reputed
10.	Earthing Kit	As per design	50mm dia, 2M Long GI rod with 20kg moisture booster	Reputed
11.	Tags, Lugs, Glands, Ferrules, Taps, Bends, Connectors, conduit pipes	As Required	As per requirement	Reputed
12.	Lightning Arrestor	As per design	Level 4, 107 meters radius protection	Galaxy/Reputed
13.	Energy Meters	2Nos	0.5 class, 50/5 A CT operated	Reputed
14.	HT metering Cubicle	1 No	11 KV Metering Cubicle will have 2mm Thickness and suitable for 3 phase 4 wire outdoor installation comprising of 3 number of Single Phase epoxy resin cast CTs of ratio 10/5A-50/5A with VCB, Bi-directional Check Meters etc..	While approving the Technical Specification the corrections to be made as suggested by the approving authority/CESCOM

Note:

- 1) Detailed Technical specification of items to be supplied shall be as per **Annexure-1**
- 2) The Reputed make items used shall be acceptable by CESCOM/Chief Electrical Inspectorate/Inspecting officers. If found not acceptable as per specification, same to be replaced without any extra cost. **For detailed scope of work refer Annexure - 2**
- 3) The components specified above from (3) to (13) are indicative and the quantities as per requirement will be provided and in case any additional item to be provided for satisfactory performance shall be supplied/installed without any extra cost.
- 4) The required approvals/clearances from Electrical Inspectorate/Statutory bodies/CESCOM will be obtained by you including 250KVA, 11/0.433KV Transformer GTP/Drawing and you shall make payment of necessary official fees. The required letter support will be furnished to you. **Refer Para 1 of Annexure 2**
- 5) Since mounting on elevated structure, please inspect the installation location and furnish the structure drawing to enable arrange mounting structure for modules. The supply of mounting structure is in the scope of M/s ATME.
- 6) The plant shall be deemed to be successfully erected and commissioned only after submission of relevant commissioning certificate from the CESCOM/Inspectorate officials. During the trial operation, the plant shall perform trouble free operation for cumulative 72hours during which the functionality of all plant components shall be demonstrated and the system shall be in generating mode. **Refer Para 5&6 of Annexure 2**
- 7) You will provide training to at-least TWO personals after commissioning of the plant for a minimum period of TWO days for emergency testing and maintenance. **Refer Para 7&8 of Annexure 2**

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- 8) If any technical team during the inspection recommend for modification and replacement of specified equipments after a successful commission years later, you will bear all expenses as per recommendation for modification and replacement for better performance.
- 9) Please furnish your PAN card copy and Bank Account details.
- 10) For other terms & scope of work refer **Annexure -3**

A. COMMERCIAL TERMS & CONDITIONS:

1.	Price for total turnkey including supply, installation, laying of cables, Testing and Commissioning. Also includes free delivery to ATME College	Rs. 56,00,000.00 (Rupees Fifty Six Lakhs only)
2.	Taxes like Custom, VAT, Duties and Service tax, any other taxes applicable if any	Included in the above cost. No variation in the cost including taxes and duties is acceptable till the completion of commissioning. For complete details refer Para 3 of Annexure – 3
3.	Completion period	Within end August-2016 including commissioning and approvals of concerned authorities with seven days successful generation For complete details refer Para 3, 4& 5 of Annexure – 2
4.	Terms of Payment	50% Advance will be made on acceptance of Purchase order and signing the agreement at the time of agreement by submission of equivalent value post dated Cheque valid for THREE months. 40% payment will be made on dispatch of materials and receipt at site with all invoices and warranty policies in the name of ATME College of Engineering, then only advance 50% PDC will be returned 8% (Seven percent) after successful commissioning and submission of documents like approvals, clearances, drawings etc, 2% of the RDWO value shall be retained by ATMECE as deposit towards minimum generation guarantee as per clause RWDO-A,5. Alternatively 2% can be released on furnishing performance Bank Guarantee, which be valid as per the minimum generation guarantee clause. Bank guarantee has to be renewed one month prior to the date of expiry or else it would be enashed Same clause will be applicable on the AMC being accepted on mutual discussion after 5years.
5.	Warranty	Solar PV modules shall have 10years manufacturing warranty, 25years performance warranty Insurance copy should be provided by the module manufacturer in the name of ATME College of Engineering. The output of Solar power system shall not degrade more than 10% in 10years and 20% in 25years. For any short fall in the generation of power you will compensate ATME College of Engineering at the rate of Rs. 9.56 per Unit which shall be calculated annually. Solar inverters shall have 5years replacement warranty.



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		The minimum generation of 1,500units/kWp/Annum with 90% of grid connectivity, for each 1% of grid connectivity failure over and above the stipulated connectivity (90%) an allowance of 16 units/kWp/annum will be allowed. For the short fall compensate ATME College of Engineering at the rate of Rs 9.56/Unit which shall be calculated annually. This unit reading will be considered and valued at the bidirectional net-metering location only. The warranty will be against breakages, malfunction, non-fulfillment of guaranteed performance and breakdowns due to manufacturing defects or defects that may arise due to improper operation of Electrical or Electronic component of the system but do not includes physical damages by ATME. The defective product during the warranty period shall be replaced free of cost. This warranty shall be in force from the date on which the system is taken over by ATME. The manufacturer's performance guarantee/warranty certificate incorporating M/s ATME address to be submitted to us.
6.	Operation and maintenance	The operation and maintenance for the first 5years of the complete plant will be carried out by you free of cost. As per your guidance our personals shall clean the modules periodically. For subsequent maintenance after FIVE years shall finalize the annual fee on mutual discussion. For complete details refer Para 9 of Annexure – 2
7.	Penalty	For the delayed activities than stipulated in the order a penalty at the rate of half percent per week subject to maximum of TEN percent on the contract value.
8.	Agreement	On acceptance of our Purchase order we shall sign an agreement for effectiveness of the execution.
9.	Order of acceptance	Your acceptance agreeing to abide by the condition of this purchase order and annexure (1), (2), (3) enclosed. The terms and conditions of this purchase order shall supersede the terms and conditions indicated in your offer and subsequent correspondence before placement of this order and becomes void. The condition of this purchase order shall prevail. Please send duly signed and sealed Purchase Order along with annexures.
10.	Settlement of disputes	Any disputes arising between ATME College of Engineering and M/s Evervolt shall be referred to the court of law of Mysore City jurisdiction only.

Authorized Person for the project:

Name: Mr. Mohan M.

Mobile No: 9448285647

Thanking you,

Yours faithfully,

For Academy for Technical & Management Excellence

(L. Arun Kumar)
Chairman

Received Detail
work order with Annexure 1&2,3
and accepted.
For EVERVOLT SOLAR PVT. LTD.
Authorized Signatory
6/5/2016

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江苏赛拉弗光伏系统有限公司
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Changzhou, China

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http://www.seraphim-energy.com

16th Sep 2016

ATME College of Engineering
13th Km, Mysore – Kanakapura - Bangalore Road,
Mysore - 570028, Karnataka

Subject: Warranty – Supply of 315Wp Polycrystalline PV Modules

With reference to the above subject, we hereby confirm to cover under our warranty policy for the Solar PV Modules sold and installed by our distributor Evervolt Solar Pvt. Ltd., Bangalore to you. List of Solar PV Modules with serial numbers have been attached herewith as Annexure 1.

Further, confirm that, the list of modules supplied is covered under Powerguard insurance for product and performance warranty as per our warranty policy.

James Li
Sales Director

Seraphim Solar System Co., Ltd.

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Annexure - 1

No.	Serial No.	FF(%)	Isc(A)	Voc(V)	Im(A)	Vm(V)	Pm(W)
1	SP672160606801208	77.99%	8.97	45.26	8.40	37.68	316.59
2	SP672160606801219	77.90%	8.90	45.75	8.37	37.88	317.07
3	SP672160606801406	77.25%	8.96	45.93	8.40	37.82	317.79
4	SP672160606801210	76.41%	8.94	46.77	8.40	38.00	319.36
5	SP672160606801334	77.67%	8.99	45.79	8.39	38.09	319.66
6	SP672160606800081	76.20%	8.93	46.71	8.39	37.88	317.92
7	SP672160606801337	76.45%	8.94	46.81	8.39	38.11	319.82
8	SP672160606801335	77.74%	8.96	45.26	8.37	37.69	315.43
9	SP672160606801336	77.84%	8.98	45.32	8.37	37.88	316.92
10	SP672160606800854	77.20%	8.89	46.16	8.36	37.89	316.82
11	SP672160606801022	77.90%	8.92	45.50	8.36	37.80	316.05
12	SP672160606800038	76.40%	8.92	46.82	8.37	38.09	318.94
13	SP672160606801340	76.38%	8.94	46.70	8.40	37.96	318.87
14	SP672160606800100	76.05%	8.96	46.67	8.39	37.89	317.98
15	SP672160606801405	76.37%	8.91	46.68	8.40	37.80	317.53
16	SP672160606801305	76.06%	8.92	46.59	8.38	37.68	315.94
17	SP672160606801418	76.06%	8.96	46.85	8.40	38.02	319.29
18	SP672160606801339	76.01%	8.95	46.80	8.40	37.93	318.47
19	SP672160606801313	76.24%	8.93	46.99	8.37	38.23	319.92
20	SP672160606801342	77.80%	8.90	45.88	8.39	37.84	317.60
21	SP672160606800022	76.59%	8.89	46.83	8.37	38.13	319.06
22	SP672160606800096	76.11%	8.93	46.78	8.36	38.03	318.09
23	SP672160606801040	76.06%	8.90	46.85	8.40	37.76	316.99
24	SP672160606801086	77.52%	8.93	45.91	8.37	37.95	317.61
25	SP672160606801159	76.14%	8.93	46.93	8.37	38.12	318.97
26	SP672160606801096	77.77%	8.95	45.59	8.40	37.81	317.43
27	SP672160606801036	76.36%	8.93	46.74	8.36	38.10	318.63
28	SP672160606801161	76.19%	8.93	46.66	8.40	37.79	317.56
29	SP672160606801039	76.40%	8.90	46.79	8.36	38.04	318.16
30	SP672160606801144	76.47%	8.91	46.82	8.41	37.95	319.18
31	SP672160606800450	76.21%	8.92	46.77	8.40	37.85	317.99
32	SP672160606801047	76.21%	8.87	46.62	8.40	37.54	315.21
33	SP672160606801045	76.14%	8.91	46.49	8.37	37.69	315.32
34	SP672160606801044	76.49%	8.89	46.91	8.40	37.96	318.94
35	SP672160606801075	76.33%	8.94	46.44	8.36	37.89	316.74
36	SP672160606801166	76.01%	8.96	46.92	8.41	38.01	319.48



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37	SP672160606801080	76.70%	8.90	46.29	8.37	37.75	315.87
38	SP672160606801165	77.56%	8.94	45.94	8.37	38.08	318.58
39	SP672160606801167	76.69%	8.86	46.72	8.39	37.82	317.38
40	SP672160606801158	77.74%	8.93	45.60	8.40	37.68	316.66
41	SP672160606801162	77.82%	8.95	45.72	8.39	37.97	318.44
42	SP672160606801100	76.03%	8.91	46.68	8.38	37.71	316.19
43	SP672160606801016	77.97%	8.92	45.58	8.40	37.71	316.86
44	SP672160606801017	76.52%	8.91	46.84	8.37	38.16	319.40
45	SP672160606800248	76.38%	8.97	46.53	8.40	37.94	318.61
46	SP672160606801057	77.75%	8.94	45.51	8.37	37.83	316.49
47	SP672160606800846	76.49%	8.89	46.97	8.41	38.00	319.46
48	SP672160606801042	77.38%	8.95	45.57	8.38	37.65	315.47
49	SP672160606800145	76.08%	8.94	46.70	8.37	37.96	317.68
50	SP672160606800001	76.29%	8.94	46.90	8.38	38.16	319.77
51	SP672160606801164	77.88%	8.96	45.69	8.40	37.95	318.82
52	SP672160606800990	77.77%	8.99	45.37	8.37	37.89	317.21
53	SP672160606801141	76.34%	8.93	46.80	8.40	37.98	319.16
54	SP672160606801142	77.11%	8.90	46.02	8.40	37.59	315.80
55	SP672160606801014	76.10%	8.94	46.76	8.38	37.96	318.06
56	SP672160606801160	77.67%	8.99	45.37	8.37	37.84	316.64
57	SP672160606801013	77.60%	8.97	45.76	8.41	37.89	318.58
58	SP672160606800527	76.08%	8.91	46.95	8.41	37.85	318.23
59	SP672160606801015	77.85%	8.95	45.45	8.41	37.66	316.55
60	SP672160606800685	76.33%	8.88	46.96	8.39	37.93	318.29
61	SP672160606800092	77.74%	8.94	45.57	8.40	37.70	316.82
62	SP672160606800098	76.20%	8.96	46.71	8.38	38.04	318.79
63	SP672160606800151	76.05%	8.95	46.89	8.36	38.15	318.99
64	SP672160606801179	76.18%	8.90	46.81	8.40	37.80	317.52
65	SP672160606801099	77.77%	8.86	45.74	8.39	37.60	315.34
66	SP672160606801060	76.09%	8.89	46.82	8.40	37.73	316.84
67	SP672160606801178	77.76%	8.92	45.69	8.40	37.76	317.07
68	SP672160606801175	76.06%	8.91	46.63	8.38	37.69	316.00
69	SP672160606801059	77.82%	8.94	45.41	8.36	37.79	315.90
70	SP672160606801058	77.96%	8.93	45.59	8.40	37.79	317.41
71	SP672160606801176	77.07%	8.90	46.43	8.39	37.97	318.66
72	SP672160606800743	77.72%	8.90	45.73	8.39	37.69	316.28
73	SP672160606801169	77.74%	8.93	45.73	8.40	37.76	317.30
74	SP672160606801171	77.57%	8.95	45.57	8.41	37.64	316.49
75	SP672160606800751	76.42%	8.96	46.31	8.38	37.87	317.24

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MODULES shall become the property of SERAPHIM made for their disposal. SERAPHIM has the rights to deliver another type (different in size, color, shape and/or power) in case SERAPHIM discontinued producing the replaced MODULES at the time of the claim.

9. Warranty Transfer

This warranty is transferable when the product remains installed in its original location at the warranty registration.

10. Force Majeure

SERAPHIM shall not be responsible or liable in any way to the customer or any third-party arising from any non-performance or delay in performance of any terms and conditions of sale, including this "Limited Warranty for PV Modules", due to acts God, war, riots, strikes, warlike conditions, plague or other epidemics, fire, flood, or any other similar cause or circumstance beyond the reasonable control of such SERAPHIM. In such cases, performance by SERAPHIM of this Limited Warranty shall be suspended without liability for the period of delay reasonably attributable to such causes.

11. Validity

This "Limited Power Warranty for PV Modules" will become null and void if the MODULE is transferred from the original continent of origin (e.g. North America). All customers, direct and indirect, are hereby notified of such potential nullification.


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STC¹

¹"Peak Power at STC" is the power in Watt peak that a PV- module generates in its Maximum Power Point. "STC" are as follows:

- (a) light spectrum of AM 1.5,
- (b) an irradiation of 1000 W per m² and

(c) a cell temperature of 25 degree centigrade at right angle irradiation. The measurements are carried out in accordance with IEC 61215 as tested at the connectors or junction box terminals – as applicable – per calibration and testing standards of SERAPHIM valid at the date of manufacture of the PV-modules.



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76	SP672160606800350	77.70%	8.97	45.46	8.40	37.72	316.78
77	SP672160606801081	77.87%	8.89	45.69	8.38	37.76	316.35
78	SP672160606800578	76.50%	8.91	46.41	8.40	37.70	316.53
79	SP672160606801106	76.27%	8.90	46.72	8.41	37.72	317.17
80	SP672160606801051	76.12%	8.93	46.69	8.37	37.92	317.37
81	SP672160606801050	76.38%	8.90	46.77	8.40	37.86	317.87
82	SP672160606801097	77.83%	8.87	45.76	8.39	37.63	315.78
83	SP672160606801085	76.19%	8.91	46.89	8.38	37.97	318.24
84	SP672160606800761	77.35%	8.95	45.55	8.38	37.64	315.40
85	SP672160606800302	76.25%	8.94	46.57	8.40	37.80	317.55
86	SP672160606800328	77.49%	8.90	45.96	8.40	37.75	317.12
87	SP672160606800506	76.28%	8.95	46.70	8.40	37.93	318.67
88	SP672160606800472	77.71%	8.90	45.86	8.36	37.92	317.02
89	SP672160606800513	76.16%	8.97	46.67	8.36	38.15	318.94
90	SP672160606800462	76.34%	8.98	46.33	8.36	37.98	317.63
91	SP672160606800468	76.02%	8.95	46.70	8.39	37.88	317.69
92	SP672160606800509	78.00%	8.97	45.50	8.40	37.88	318.15
93	SP672160606800305	76.13%	8.97	46.70	8.39	38.00	318.80
94	SP672160606800406	76.10%	8.97	46.71	8.41	37.93	318.94
95	SP672160606800312	76.10%	8.97	46.88	8.39	38.11	319.91
96	SP672160606800409	76.13%	8.96	46.61	8.39	37.89	317.97
97	SP672160606800401	76.69%	8.94	46.61	8.37	38.19	319.51
98	SP672160606800411	76.88%	8.96	46.41	8.38	38.15	319.58
99	SP672160606800405	77.87%	8.98	45.31	8.36	37.89	316.82
100	SP672160606800451	76.29%	8.96	46.59	8.37	38.08	318.62
101	SP672160606800408	76.38%	8.96	46.35	8.40	37.77	317.08
102	SP672160606800414	77.47%	8.91	46.18	8.40	37.95	318.91
103	SP672160606800399	76.63%	8.96	46.43	8.39	38.00	318.77
104	SP672160606800292	76.03%	8.94	46.74	8.37	37.92	317.50
105	SP672160606800308	76.30%	8.97	46.70	8.37	38.19	319.70
106	SP672160606801346	77.65%	8.89	45.87	8.41	37.67	316.74
107	SP672160606801317	77.89%	8.95	45.82	8.38	38.14	319.51
108	SP672160606800041	77.91%	8.93	45.61	8.39	37.82	317.18
109	SP672160606800154	77.97%	8.97	45.54	8.38	38.02	318.53
110	SP672160606801361	76.35%	8.92	46.86	8.40	37.99	319.23
111	SP672160606801417	76.06%	8.98	46.77	8.39	38.07	319.33
112	SP672160606801360	76.54%	8.94	46.71	8.40	38.06	319.78
113	SP672160606801348	76.19%	8.95	46.83	8.40	38.05	319.46
114	SP672160606800116	77.49%	8.97	45.40	8.39	37.62	315.56

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江苏赛拉弗光伏系统有限公司
JIANGSU SERAPHIM SOLAR SYSTEM CO.,LTD.
 地址: 江苏省常州市武进区横林镇林南村
 Add: Linnan, Henglin Zhen, Wujin District
 Changzhou, China
 邮编(Post code): 213101
 Tel: +86 519 88776028
 Fax: +86 519 88786181
<http://www.seraphim-energy.com>

115	SP672160606801338	77.97%	8.93	45.55	8.38	37.86	317.16
116	SP672160606800037	78.00%	8.93	45.46	8.38	37.80	316.70
117	SP672160606801362	76.38%	8.94	46.76	8.39	38.08	319.34
118	SP672160606801439	76.60%	8.91	46.82	8.38	38.13	319.66
119	SP672160606801270	76.01%	8.94	46.70	8.38	37.86	317.37
120	SP672160606801429	76.24%	8.97	46.58	8.40	37.96	318.73
121	SP672160606801322	77.98%	8.97	45.50	8.41	37.88	318.35
122	SP672160606800112	77.51%	8.95	45.50	8.39	37.59	315.51
123	SP672160606801319	76.81%	8.93	46.64	8.39	38.11	319.77
124	SP672160606801425	77.55%	8.99	45.46	8.36	37.88	316.75
125	SP672160606801341	77.99%	8.97	45.31	8.39	37.80	316.98
126	SP672160606800084	76.03%	8.97	46.52	8.38	37.84	317.25
127	SP672160606800296	77.96%	8.92	45.78	8.37	38.04	318.29
128	SP672160606800031	77.70%	8.92	45.93	8.36	38.05	318.23
129	SP672160606800443	76.46%	8.99	46.48	8.37	38.17	319.33
130	SP672160606800268	76.07%	8.90	47.10	8.37	38.11	318.84
131	SP672160606800135	77.78%	8.90	45.95	8.37	38.03	318.22
132	SP672160606800438	77.96%	8.99	45.40	8.37	38.02	318.03
133	SP672160606800225	76.22%	8.98	46.61	8.41	37.96	319.17
134	SP672160606800436	76.15%	8.91	47.03	8.41	37.95	319.04
135	SP672160606800440	76.36%	8.96	46.41	8.40	37.80	317.42
136	SP672160606800426	76.52%	8.97	46.57	8.37	38.21	319.72
137	SP672160606800258	77.77%	8.92	46.03	8.40	38.04	319.44
138	SP672160606800435	76.35%	8.98	46.65	8.40	38.07	319.86
139	SP672160606800430	76.25%	8.90	47.01	8.39	38.04	319.10
140	SP672160606800441	76.44%	8.96	46.55	8.36	38.14	318.99
141	SP672160606800421	76.05%	8.91	47.07	8.37	38.09	319.01
142	SP672160606800434	76.33%	8.97	46.66	8.37	38.19	319.45
143	SP672160606800422	77.91%	8.90	46.13	8.40	38.07	319.80
144	SP672160606800427	77.79%	8.95	45.79	8.36	38.14	318.98
145	SP672160606800425	76.16%	8.98	46.74	8.36	38.22	319.60
146	SP672160606800267	77.53%	8.96	45.66	8.40	37.80	317.32
147	SP672160606800252	77.85%	8.97	45.46	8.37	37.92	317.27
148	SP672160606800167	76.15%	8.94	46.64	8.36	37.95	317.47
149	SP672160606800156	77.89%	8.98	45.43	8.40	37.84	317.74
150	SP672160606800004	76.43%	8.94	46.74	8.38	38.08	319.25
151	SP672160606801433	77.62%	8.90	45.98	8.41	37.77	317.49
152	SP672160606800139	77.51%	8.97	45.51	8.37	37.80	316.29
153	SP672160606800147	76.21%	8.92	46.82	8.39	37.92	318.16

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154	SP672160606800077	76.13%	8.96	46.46	8.41	37.71	316.99
155	SP672160606800165	77.96%	8.97	45.45	8.38	37.93	317.84
156	SP672160606801419	76.06%	8.95	46.61	8.37	37.89	317.16
157	SP672160606801422	77.87%	8.95	45.52	8.40	37.78	317.25
158	SP672160606800148	76.37%	8.93	46.44	8.38	37.78	316.66
159	SP672160606801415	77.79%	8.95	45.47	8.41	37.65	316.56
160	SP672160606801410	77.50%	8.95	45.45	8.38	37.63	315.20
161	SP672160606801416	77.93%	8.98	45.27	8.37	37.88	316.89
162	SP672160606800159	77.72%	8.93	45.44	8.38	37.67	315.50
163	SP672160606800163	77.79%	8.95	45.42	8.38	37.77	316.34
164	SP672160606801103	76.32%	8.90	46.63	8.40	37.71	316.61
165	SP672160606801414	77.91%	8.94	45.74	8.39	37.95	318.61
166	SP672160606800876	76.34%	8.91	46.66	8.39	37.82	317.47
167	SP672160606801413	76.15%	8.97	46.40	8.37	37.87	316.98
168	SP672160606801411	77.89%	8.99	45.26	8.38	37.79	316.73
169	SP672160606800110	76.46%	8.93	46.55	8.38	37.92	317.68
170	SP672160606801310	76.30%	8.96	46.62	8.39	38.00	318.77
171	SP672160606800055	76.11%	8.96	46.69	8.38	38.01	318.45
172	SP672160606800019	76.04%	8.95	46.71	8.40	37.87	318.06
173	SP672160606800119	77.81%	8.90	45.49	8.37	37.65	315.10
174	SP672160606801436	77.75%	8.95	45.46	8.38	37.75	316.33
175	SP672160606800065	77.96%	8.95	45.64	8.40	37.91	318.27
176	SP672160606800016	77.78%	8.95	45.49	8.36	37.85	316.53
177	SP672160606800294	77.71%	8.90	45.72	8.41	37.60	316.20
178	SP672160606800282	77.71%	8.99	45.59	8.40	37.91	318.45
179	SP672160606800291	77.85%	8.98	45.44	8.40	37.78	317.52
180	SP672160606800387	76.43%	8.96	46.50	8.38	38.00	318.34
181	SP672160606800391	76.03%	8.91	47.18	8.40	38.05	319.67
182	SP672160606800396	77.08%	8.97	45.58	8.41	37.48	315.22
183	SP672160606800400	76.03%	8.97	46.61	8.37	37.96	317.86
184	SP672160606800395	76.06%	8.99	46.70	8.36	38.18	319.21
185	SP672160606800298	76.25%	8.98	46.70	8.36	38.23	319.73
186	SP672160606800384	77.59%	8.93	46.00	8.41	37.92	318.82
187	SP672160606800238	77.08%	8.92	45.90	8.39	37.61	315.52
188	SP672160606800286	77.87%	8.96	45.36	8.38	37.74	316.30
189	SP672160606800306	77.66%	8.91	46.23	8.36	38.25	319.78
190	SP672160606800402	76.35%	8.96	46.30	8.39	37.76	316.91
191	SP672160606800412	76.53%	8.99	45.87	8.38	37.63	315.48
192	SP672160606800233	77.90%	8.92	45.99	8.36	38.21	319.54

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193	SP672160606800307	77.96%	8.92	45.95	8.37	38.18	319.38
194	SP672160606800295	76.16%	8.99	46.48	8.36	38.04	318.19
195	SP672160606800389	77.66%	8.96	45.42	8.41	37.59	315.98
196	SP672160606800299	76.19%	8.90	47.01	8.41	37.90	318.75
197	SP672160606800394	76.36%	8.97	46.26	8.39	37.74	316.68
198	SP672160606801381	77.92%	8.95	45.57	8.38	37.90	317.66
199	SP672160606801427	76.27%	8.96	46.50	8.37	37.97	317.65
200	SP672160606801379	76.27%	8.96	46.74	8.40	38.04	319.37
201	SP672160606801358	76.36%	8.94	46.83	8.40	38.06	319.64
202	SP672160606801473	76.01%	8.91	46.70	8.41	37.61	316.15
203	SP672160606801380	76.10%	8.89	47.24	8.39	38.09	319.68
204	SP672160606801389	76.04%	8.98	46.83	8.38	38.16	319.89
205	SP672160606801469	77.93%	8.95	45.55	8.38	37.91	317.67
206	SP672160606801471	77.82%	8.95	45.57	8.37	37.90	317.36
207	SP672160606801472	76.00%	8.93	46.73	8.36	37.93	317.29
208	SP672160606801292	77.60%	8.98	45.48	8.39	37.79	317.05
209	SP672160606801321	76.35%	8.95	46.74	8.39	38.04	319.31
210	SP672160606801470	77.68%	8.92	45.61	8.37	37.76	316.08
211	SP672160606801468	77.96%	8.98	45.52	8.40	37.93	318.53
212	SP672160606801283	76.29%	8.97	46.58	8.39	37.98	318.79
213	SP672160606800027	76.12%	8.97	46.68	8.41	37.91	318.71
214	SP672160606800132	77.82%	8.94	45.52	8.40	37.71	316.62
215	SP672160606800032	77.67%	8.95	45.45	8.37	37.77	315.95
216	SP672160606800039	76.11%	8.96	46.72	8.39	37.98	318.51
217	SP672160606800134	77.76%	8.97	45.59	8.39	37.93	318.20
218	SP672160606800080	77.80%	8.95	45.46	8.37	37.81	316.59
219	SP672160606801463	76.11%	8.92	46.54	8.41	37.59	316.02
220	SP672160606801535	77.95%	8.97	45.54	8.40	37.92	318.50
221	SP672160606801500	76.40%	8.90	46.57	8.38	37.79	316.70
222	SP672160606801493	76.37%	8.90	46.50	8.37	37.76	316.19
223	SP672160606801041	77.72%	8.96	45.57	8.38	37.85	317.17
224	SP672160606801395	77.51%	8.98	45.50	8.38	37.77	316.56
225	SP672160606801365	76.60%	8.91	46.84	8.38	38.15	319.60
226	SP672160606801441	76.07%	8.93	46.81	8.38	37.94	317.99
227	SP672160606800066	77.83%	8.96	45.34	8.37	37.77	316.09
228	SP672160606800008	76.48%	8.92	46.50	8.37	37.88	317.11
229	SP672160606801156	76.62%	8.93	46.49	8.40	37.86	317.96
230	SP672160606801291	76.28%	8.94	46.46	8.37	37.87	316.86
231	SP672160606800073	77.78%	8.91	45.87	8.39	37.85	317.76

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232	SP672160606800012	76.32%	8.95	46.63	8.38	37.99	318.52
233	SP672160606800124	76.24%	8.93	46.70	8.38	37.93	318.02
234	SP672160606800005	76.72%	8.92	46.69	8.38	38.10	319.39
235	SP672160606800076	77.95%	8.99	45.22	8.36	37.90	316.90
236	SP672160606800072	77.70%	8.94	45.60	8.37	37.84	316.87
237	SP672160606800121	76.15%	8.96	46.50	8.40	37.76	317.24
238	SP672160606800071	77.82%	8.96	45.49	8.39	37.83	317.31
239	SP672160606800021	77.93%	8.98	45.47	8.40	37.88	318.10
240	SP672160606801421	77.64%	8.98	45.61	8.40	37.88	318.04
241	SP672160606801356	76.27%	8.95	46.78	8.40	38.03	319.43
242	SP672160606801430	76.01%	8.97	46.69	8.38	37.98	318.44
243	SP672160606801482	76.28%	8.91	46.91	8.36	38.13	318.78
244	SP672160606801498	76.06%	8.94	46.74	8.36	38.02	317.94
245	SP672160606801502	78.00%	8.95	45.44	8.38	37.84	317.21
246	SP672160606801569	77.29%	8.93	45.69	8.40	37.54	315.34
247	SP672160606801545	76.25%	8.96	46.82	8.37	38.18	319.71
248	SP672160606801056	77.79%	8.97	45.52	8.39	37.85	317.73
249	SP672160606801487	77.50%	8.90	45.74	8.39	37.63	315.57
250	SP672160606801357	76.13%	8.93	46.53	8.36	37.84	316.41
251	SP672160606801484	77.97%	8.92	45.66	8.37	37.92	317.45
252	SP672160606801486	77.60%	8.95	45.60	8.37	37.85	316.73
253	SP672160606801489	77.92%	8.91	45.50	8.36	37.77	315.89
254	SP672160606801384	77.95%	8.94	45.74	8.38	38.07	318.80
255	SP672160606801488	76.46%	8.92	46.46	8.37	37.84	316.85
256	SP672160606800122	76.37%	8.94	46.69	8.40	37.94	318.70
257	SP672160606801480	76.34%	8.95	46.40	8.38	37.81	316.89
258	SP672160606801382	76.11%	8.92	47.05	8.37	38.20	319.60
259	SP672160606801311	76.32%	8.96	46.42	8.36	37.97	317.47
260	SP672160606801352	76.23%	8.98	46.58	8.36	38.13	318.80
261	SP672160606800432	76.26%	8.95	46.44	8.36	37.93	317.08
262	SP672160606800446	76.36%	8.96	46.34	8.41	37.73	317.20
263	SP672160606800178	76.39%	8.96	46.62	8.40	38.02	319.21
264	SP672160606800444	76.39%	8.97	46.66	8.40	38.08	319.72
265	SP672160606800279	77.83%	8.98	45.26	8.40	37.65	316.19
266	SP672160606800442	76.25%	8.95	46.26	8.36	37.75	315.63
267	SP672160606800157	76.39%	8.98	46.37	8.37	38.01	318.27
268	SP672160606800448	76.13%	8.97	46.78	8.36	38.19	319.34
269	SP672160606800193	77.57%	8.90	46.05	8.38	37.94	318.10
270	SP672160606800519	76.53%	8.93	46.62	8.40	37.91	318.58

271	SP672160606800437	77.98%	8.91	45.86	8.36	38.11	318.75
272	SP672160606800521	76.22%	8.98	46.71	8.40	38.06	319.69
273	SP672160606800456	76.08%	8.93	46.70	8.39	37.85	317.43
274	SP672160606800486	77.63%	8.96	45.50	8.38	37.79	316.62
275	SP672160606800452	76.28%	8.96	46.57	8.39	37.92	318.27
276	SP672160606800345	77.58%	8.90	46.12	8.41	37.86	318.38
277	SP672160606800463	77.99%	8.98	45.61	8.41	37.98	319.31
278	SP672160606800489	76.18%	8.95	46.61	8.39	37.84	317.59
279	SP672160606800104	78.00%	8.92	45.55	8.37	37.83	316.71
280	SP672160606800349	77.40%	8.90	45.97	8.39	37.71	316.54
281	SP672160606800518	76.27%	8.98	46.52	8.36	38.09	318.55
282	SP672160606800530	76.10%	8.96	46.84	8.39	38.05	319.34
283	SP672160606800344	77.71%	8.98	45.55	8.41	37.81	317.90
284	SP672160606800481	77.83%	8.96	45.53	8.40	37.77	317.43
285	SP672160606800533	77.01%	8.91	46.06	8.40	37.61	316.07
286	SP672160606800531	76.19%	8.97	46.62	8.37	38.04	318.61
287	SP672160606800537	77.79%	8.99	45.61	8.37	38.11	318.92
288	SP672160606800535	76.63%	8.96	46.50	8.37	38.12	319.08
289	SP672160606800315	76.14%	8.97	46.77	8.40	38.02	319.35
290	SP672160606800301	77.79%	8.99	45.46	8.39	37.87	317.79
291	SP672160606800532	77.64%	8.90	45.94	8.38	37.85	317.36
292	SP672160606800497	77.72%	8.89	45.92	8.39	37.84	317.31
293	SP672160606800556	77.65%	8.97	45.38	8.36	37.81	316.21
294	SP672160606800281	77.70%	8.97	45.38	8.40	37.67	316.29
295	SP672160606800490	76.12%	8.97	46.54	8.39	37.88	317.89
296	SP672160606800543	76.45%	8.96	46.53	8.38	38.05	318.65
297	SP672160606800359	76.18%	8.99	46.66	8.40	38.05	319.51
298	SP672160606800482	76.06%	8.94	46.54	8.40	37.66	316.50
299	SP672160606800554	77.76%	8.90	45.60	8.39	37.62	315.64
300	SP672160606800544	77.64%	8.98	45.26	8.40	37.57	315.52
301	SP672160606800558	76.14%	8.90	47.13	8.37	38.17	319.39
302	SP672160606800538	77.95%	8.98	45.48	8.40	37.89	318.28


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1. Limited Product Warranty – Ten Years Repair, Replacement or Refund Remedy

Jiangsu Seraphim Solar System Co., Ltd (SERAPHIM) warrants its Photovoltaic Solar Modules (MODULES), including factory-assembled DC connectors and cables, if any, to be free from defect in materials and workmanship under normal application, installation, usage and service conditions. If MODULES fail to conform to this warranty, during the period ending One hundred twenty (120) months from the date of sale to the customer of the SERAPHIM product (CUSTOMER), SERAPHIM will, at its option, either repair or replace the product, or refund the purchase price as paid by the CUSTOMER (SALES DATE). The repair or replacement or refund remedy shall be the sole and exclusive remedy provided under the "Limited Product Warranty" and shall not extend beyond the One hundred twenty (120) months period set forth herein. This "Limited Product Warranty" does not warrant a specific power output, which shall be exclusively covered under clause 2 hereinafter ("Limited Peak Power Warranty").

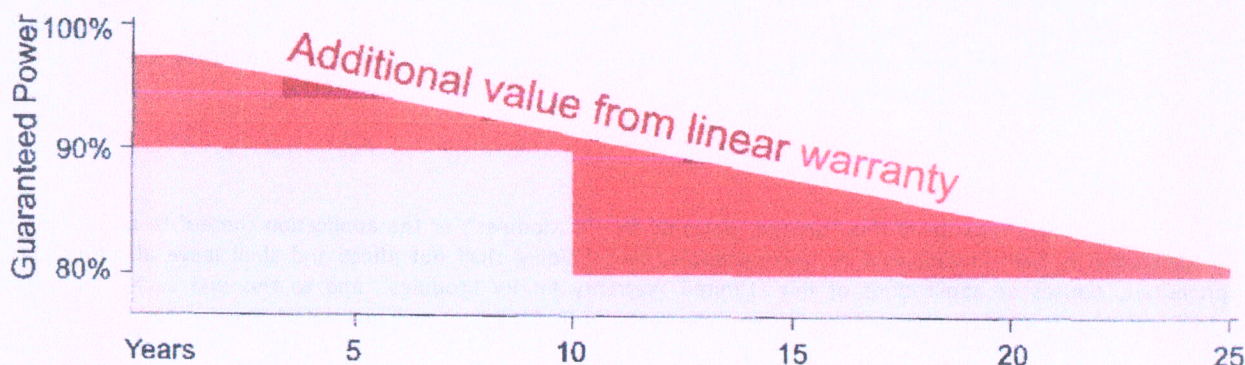
2. Limited Peak Power Warranty - Limited Remedy

SERAPHIM warrants that for a period of twenty-five years commencing on the Warranty Start Date, the loss of power output relating to the initial guaranteed power which is defined as Peak Power Watts Pmax (Wp) plus Peak Power Watts Pmax (Wp) multiplied by the lower limit of the Power Output Tolerance Pmax (%)—as specified in the relevant Product Data Sheet and measured at Standard Test Conditions (STC ¹) for the Product(s) shall not exceed

LINEAR PERFORMANCE WARRANTY

For Polycrystalline Products: less than 2.5% in the first year, thereafter less than 0.7% per year, ending with no less than 80.7% in the 25th year after the Warranty Start Date.

For Monocrystalline Products: less than 3.0% in the first year, thereafter less than 0.68% per year, ending with no less than 80.68% in the 25th year after the Warranty Start Date.



If MODULES fail to conform to this warranty during the period ending 25 years from the date of sale to the customer of the SERAPHIM product, SERAPHIM will, at its option, either repair or replace the product, or provide customer with additional modules to make up for the loss of power so that power output equals the applicable guaranteed power.

3. Exclusions and Limitations

- (1) In any event, all warranty claims must be received within the applicable warranty period for this warranty to be effective.
- (2) The "Limited Product Warranties" and the "Limited Peak Power Warranties" do not apply to any MODULES which have been subjected to:
 - Misuse, abuse, neglect or accident;
 - Alteration, improper installation or application;
 - Non-observance of SERAPHIM's installation and maintenance instructions;
 - Repair or modifications by someone other than an approved service technician of SERAPHIM;
 - Power failure surges, lighting, flood, fire, accidental breakage or any other Force Majeure incidents.
- (3) Both the "Limited Product Warranties" and "Limited Peak Power Warranties" do not cover any costs associated with installation, removal or re-installation of the PV-modules and (except as explicitly set forth in the final paragraph of

Section 5) customs clearance or any other costs for return of the MODULES.

(4) Warranty claims will not be honored if the serial number of the MODULES have been altered, removed or made illegible.

4. Limitation of Warranty Scope

These "Limited Warranties for PV Modules" as set forth herein are expressly in lieu of and exclude all other express or implied warranties, including but not limited to warranties of merchantability and of fitness for particular purpose, use (usage), or application, and all other obligations or liabilities on the part of SERAPHIM unless such other obligations or liabilities are expressly agreed to in writing signed and approved by SERAPHIM. SERAPHIM shall have no responsibility or liability whatsoever for damage or injury to persons or property, or for other loss or injury resulting from any cause whatsoever arising out of or related to the MODULES, including, without limitation, any defects in the MODULE, or from usage or installation. Under no circumstances shall SERAPHIM be liable for incidental, consequential or special damages, howsoever caused. Loss of usage, loss of profits, loss of production, and loss of revenues are specifically and without limitation excluded. SERAPHIM's aggregate liability, if any, in damages or otherwise, shall not exceed the invoice value as paid by the CUSTOMER, for the single unit of MODULE.

5. Obtaining Warranty Performance

If the CUSTOMER has a justified claim covered by this "Limited Warranties for PV Modules", an immediate notification directly to SERAPHIM shall be filed by mailing a registered letter in writing to the address of SERAPHIM listed hereunder, or, sending an email letter to the email account of SERAPHIM listed hereunder. Together with the notification, the CUSTOMER should enclose the evidence of the claim with the corresponding serial number of the MODULE(s) and the date on which the MODULE(s) have been purchased.

The return of any PV-modules will not be accepted unless prior written authorization has been given by SERAPHIM. In connection with both the "Limited Product Warranties" and "Limited Peak Power Warranties", SERAPHIM shall reimburse CUSTOMER for reasonable, customary and documented transportation charges by sea freight for both the return of the MODULES and reshipment of any repaired or replaced MODULES, only if this cost is authorized by SERAPHIM customer service department.

6. Severability

If a part, provision or clause of this "Limited Warranty for PV Modules", or the application thereof to any person or circumstance, is held invalid, void or unenforceable, such holding shall not affect and shall leave all other parts, provisions, clauses or applications of this "Limited Warranty for PV Modules", and to this end such other parts, provisions, clauses or applications of this "Limited Warranty for PV Modules" shall be treated as severable.

7. Disputes

In case of any discrepancy in a warranty-claim, a first-class international test-institute such as Fraunhofer ISE, TÜV Rheinland, TÜV SÜD or ASU Arizona State University shall be involved to judge the claim finally. All fees and expenses shall be borne by the losing party, unless otherwise awarded. The final explanation right belongs to SERAPHIM. YOU MAY HAVE SPECIFIC LEGAL RIGHTS OUTSIDE THIS WARRANTY, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. THIS LIMITED WARRANTY DOES NOT AFFECT ANY ADDITIONAL RIGHTS YOU HAVE UNDER LAWS IN YOUR JURISDICTION GOVERNING THE SALE OF CONSUMER GOODS, INCLUDING, WITHOUT LIMITATION, NATIONAL LAWS IMPLEMENTING EC DIRECTIVE 99/44. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE LIMITATIONS OR EXCLUSIONS IN THIS LIMITED WARRANTY STATEMENT MAY NOT APPLY TO YOU.

8. Various

The repair or replacement of the MODULES or the supply of additional MODULES, does not cause the beginning of new warranty terms, nor shall the original terms of this "Limited Warranty for PV-Modules" be extended. Any replaced