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Client ID **285**

Project ID **06**

Title **Description of Solar Plant for sale**

Topic & Summary **Solar plant technical description and status assessment.**

Document nr. **EC0128506PR01** Type **Description**

Issue **L** Status **Finalized**

Branch **EC – EECC Consulting** References **New Life**

File **EC0128506PR01I - PV assessment.docx**

Keywords **Solar Plant, Sungrow, Panels, Inverter**

Issued by: **G.Baratti** date **2024-10-28** signature

Checked by: **D. Hanselmann** date **2024-10-28** signature

Released by: **D. Hanselmann** date **2024-10-28** signature

Revision History	Issue	Date	Reason
	L	2025-07-28	Update panels quantiv
	I	2025-06-24	Update panels quantiv
	H	2025-04-30	Update warrantv
	G	2024-10-28	Update available quantities
	F	2024-08-05	Update available quantities
	E	2024-01-24	Tracker quantiv and configuration available
	D	2024-01-18	Added additional information of tracker and row
	C	2024-01-11	Minor adiustement
	B	2024-01-09	Minor adiustement
	A	2023-12-20	First issue

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Abstract

This document describes the various characteristics of a Solar Plant available for transfer and the current status of its components. Equipment available for sale: 254'341 LR4-72HBD solar panels including 640 string inverter SG250HXV116_S and 19 LV MV Transformer Cabin SFL-6300/33. All units come from a solar system project purchased in 2021 but never installed. All units are stored in their original packaging.

To note:

- ⇒ material is available today. No production time lag.
- ⇒ material is packaged and ready to be shipped.
- ⇒ the technology is up to date.
- ⇒ top quality of component.
- ⇒ quantity available is relevant.



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1. Introduction

This document describes the various characteristics of a Solar Plant equipment available for transfer and its current status. The subject of the opportunity is as follows:

Panels	
Manufacturer	Longi
Model	LR4-72HBD
Number of unit	254'341

String Inverter	
Manufacturer	Sungrow
Model	SG250HXV116_S
Number of unit	640

LV MV Tranformer Cabin	
Manufacturer	Sungrow
Model	SFL-6300/33
Number of unit	19

General info	
Condition	New
Year of construction	2021
Country	Chile

The material is already available, packed and ready to be shipped to a new destination. This material was delivered in 2021, the technology is up to date. The products available are of high quality and the quantity available is relevant.

2. Description of Supply

2.1 Panels Longi LR4-72HBD

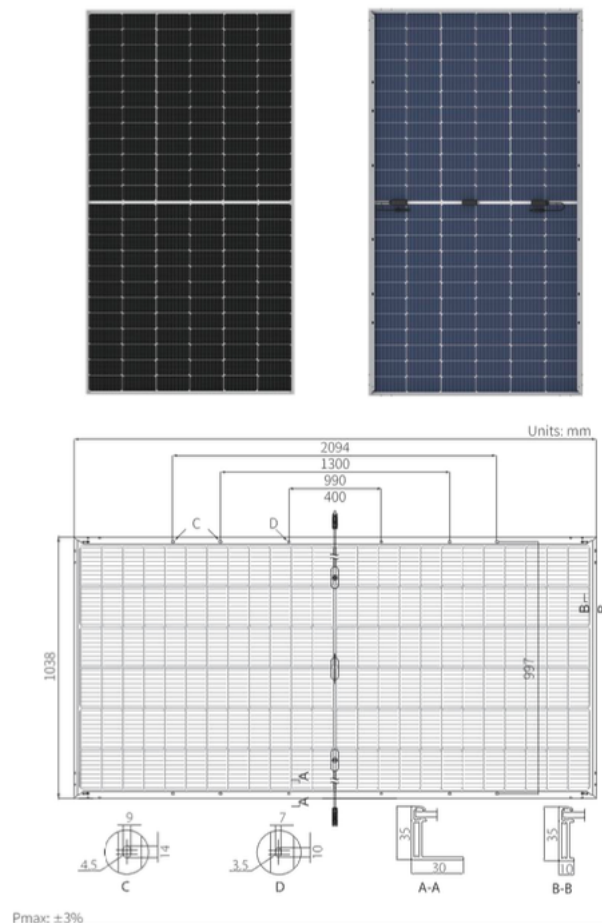


Figura 1: Panels Longi LR4-72HBD

Half-Cell

The power output of a bifacial half-cell module increases, and energy yield is higher under high irradiance conditions because of low working current.

Mechanical Load

Framed module, front/back side maximum static loading 5400/2400 Pa, makes it suitable for tracker mounts.

High Rating

Glass and junction box, with high voltage grade, supports 1500V systems.

Bifacial Energy Yield

Additional power generation from the backside of bifacial modules increases the overall energy yield, which has been verified by customers and third-party testing organizations.

Low Degradation

Anti-LID, anti-PID, 1st year degradation $\leq 2\%$, linear degradation $\leq 0.45\%/year$.

Standard Module

Fully compatible with mainstream inverters and trackers, with no system matching issues.

Gallium-doped Technology

Gallium-doped technology overcomes LID degradation and guarantees the long-term power generation of the module.

Warranty

12-year Warranty for Materials and Processing

30-year Warranty for Extra Linear Power Output

2.2 String Inverter Sungrow SG250 HX



Figura 2: SG250 HX

HIGH YIELD

- 12 MPPTs with max. efficiency 99%
- 30A MPPT compatible with 500Wp+ module Built-in Anti-PID and PID recovery function

LOW COST

- Compatible with Al and Cu AC cables DC 2 in 1 connection enabled
- Power line communication (PLC)
- Q at night function

SMART O&M

- Touch free commissioning and remote firmware upgrade
- Smart IV Curve diagnosis
- Fuse free design with smart string current monitoring

PROVEN SAFETY

- IP66 and C5 anti-corrosion
- Type II SPD for both DC and AC
- Compliant with global safety and grid code

EFFICIENCY CURVE

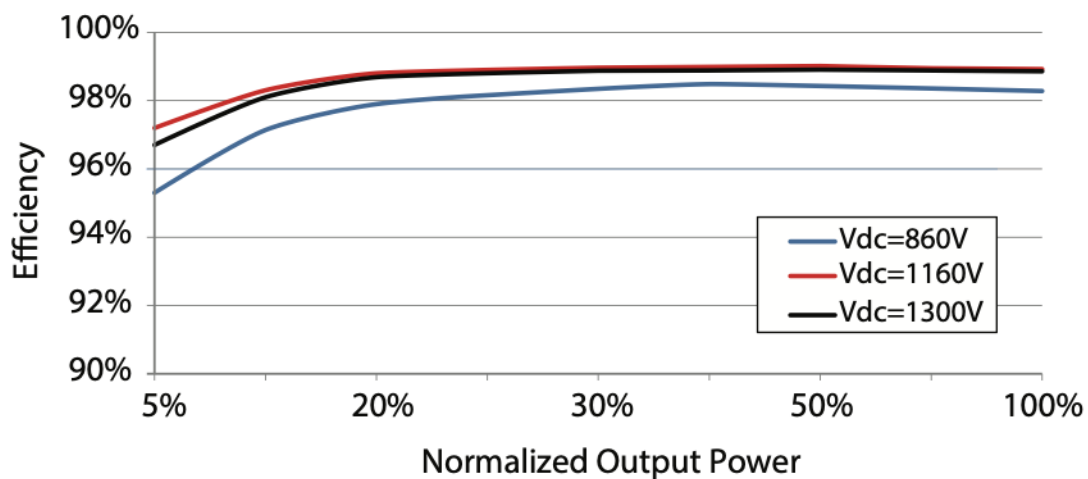


Table 1: inverted efficiency curve

2.3 Sungrow LV MV Transformer Cabin SFL-6300/33



Figura 3: SFL-6300/33

SAVED INVESTMENT

- Up to 7 MW block design
- Easy transportation due to standard container design

EASY O&M

- Online analysis for fast trouble shooting Modular design, easy replacement of main devices

SAFETY

- MV and LV isolated, with independent control room All key components front accessible, no need for walk-in operation
- All pre-assembled for easy set-up and commissioning

RELIABLE

- All components have been type tested and are in compliance with standards: IEC 60076, IEC 62271, IEC 61439

2.4 Technical data

2.4.1 Panels

Mechanical Parameters

Cell Orientation:	144(6x24)
Junction Box:	IP68, three diodes
Output Cable:	4mm ² , positive 400 / negative 200mm length can be customized
Glass:	Dual glass, 2.0mm coated tempered glass
Frame:	Anodized aluminum alloy frame
Weight:	27.5kg
Dimension:	2094×1038×35mm
Packaging:	30pcs per pallet / 150pcs per 20' GP / 660pcs per 40' HC

Electrical Characteristics STC: AM1.5 1000W/m² 25°C

Power Class:	445 - 450 - 455
Maximum Power (P _{max} /W):	445 - 450 - 455
Open Circuit Voltage (V _{oc} /V):	49.4 - 49.6 - 49.8
Short Circuit Current (I _{sc} /A):	11.52 - 11.58 - 11.65
Voltage at Maximum Power (V _{mp} /V):	41.2 - 41.4 - 41.6
Current at Maximum Power (I _{mp} /A):	10.80 - 10.87 - 10.93
Module Efficiency(%):	20.05 - 20.07 - 20.9

Operating Parameters

Operational Temperature	-40°C - +85°C
Power Output Tolerance	0 - +5W
V _{oc} and I _s Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 29
Bifaciality	70±5%

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of I _s	+0.050%/°C
Temperature Coefficient of V _{oc}	-0.284%/°C
Temperature Coefficient of max	-0.350%/°C

2.4.2 String Inverter

Input DC

Max. PV input voltage	1500V
Min. PV input voltage	500V
Startup input voltage	500V
Nominal PV input voltage	1160V
MPP voltage range	500V – 1500V
MPP voltage range for nominal power	860V – 1300V
No. of independent MPP inputs	12
Max. number of input connector per MPPT Max.	2
PV input current	30A*12
Max. DC short-circuit current	50A*12

Output DC

AC output power	250 kVA @ 30 °C / 225 kVA @40 °C / 200KVA @ 50 °C 180.5 A
Max. AC output current	180.5 A
Nominal AC voltage	3 / PE, 800 V
AC voltage range	680 – 880V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power /	> 0.99 / 0.8 leading – 0.8 lagging
Adjustable power factor	
Feed-in phases / connection phases	3 / 3

Efficiency

Max. efficiency	99%
European efficiency	98.8%

Protection

DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch	Yes
AC switch	No
PV String current monitoring	Yes
Q at night function	Yes
Anti-PID and PID recovery function	Yes
Overvoltage protection	DC type II / AC Type II

General Data

Dimensions (W*H*D)	1051 * 660 * 363 mm
Weight	99kg
Isolation method	Transformerless
Ingress protection rating	IP66
Night power consumption	< 2 W
Operating ambient temperature range	-30 to 60 °C
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	5000 m (> 4000 m derating)
Display	LED, Bluetooth+App
Communication	RS485 / PLC
DC connection type	MC4-Evo2 (Max. 6 mm ² , optional 10mm ²)
AC connection type	OT/DT terminal (Max. 300 mm ²)
Compliance	OT/DT terminal (Max. 300 mm ²) IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4120:2018, EN 50549-1/2, UNE 206007- 1:2013, P.O.12.3, UTE C15-712-1:2013
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control

2.4.3 LV MV Tranformer Cabin

Site Conditions

Temperature min/max	-20°C ~ +40°C
Max. relative humidity	95%
Altitude	2000m above sea level
Design air temperature	40°C
Earthquake (Seismic coefficient)	Seismic level 2
Aux supply	230Vac/50Hz

Design Data

Manufacturer	JSHP
Type	Oil immersed, Conservator Type, Radiator

Purpose

ONAN rated power at full load secondary voltage & at maximum air temperature	6300kVA
Maximum power	7240kVA@25°C
Insulation class	A
Rated power factor	1
Rated frequency	50 HZ
Number of phases	3
N° windings MV	1 Delta connection
N° winding LV	2 stars without neutral connection
Vector group	Dy11y11
Voltage ratio at on-load(MV/LV)	33kV /0.8-0.8kV
Voltage ratio at off-load (MV/LV)	33kV /0.8-0.8kV
LV winding current	2273/2273A
MV winding current	110A
Inrush current	1210A

Inrush current half peak time recovery	0.15s
Off-load current at voltage ratio	0.35%
Off-load losses at voltage ratio	5.4kW
On load losses at 75°C	44kW
Reactance	6.96%
Resistance	0.7%
Short-circuit impedance HV to LV1&LV2	Max. 7%
Short-circuit impedance HV to LV1 (LV2)	11.5%
Short-Circuit impedance LV1 to LV2	18%
Winding material	Aluminum
Zero sequence Reactance(Xo)	N/A
Zero sequence Reactance(Ro)	N/A
Cooling method	ONAN
Service	discontinuous
Neutral earthing	Ungrounded
Sound pressure level at 1m (on load)	60dB (A) according to I.E.C.
Protection degree	IP68 for transformer body, IP54 for other part . of transformer.
Installation	outdoor
Final color	RAL7035
Installation method and oil type	Mineral oil (PCB free) Full Insulationv
Type of insulation M.V. side	36kV
Highest system voltage M.V. side	2 sec
Duration of the symmetrical short-circuit current	70kV
Withstand voltage at power frequency M.V. side	170kV
Impulsive withstand voltage M.V. side	Full Insulation
Type of insulation L.V. side	3.6kV
Highest system voltage L.V. side	10kV
Withstand voltage at power frequency L.V. side	N/A
Impulsive withstand voltage L.V. side	A
Winding insulation class	65K
Average temperature rise winding and alarm/trip settings	alarm and trip optional 60K
Oil temperature rise and alarm/trip settings	95°C/1 0°C
Hot spot max. temperature (100% load) MV	78°C
bushing rated current	630 A
MV bushing rated voltage	35kV
MV bushing insulation level	36 kV According to IEC 60076-3 Indoor
MV bushing type	4000 A
LV bushing rated current	10 kV
LV power frequency withstand voltage LV bushing	3.6 kV
insulation level	Indoor
LV bushing type	

Instrumentation & Accessories

Oil filling device	Filling plug*1
Tank oil draining device	Drain valve*1
Exchanger draining & venting device	N/A
Filter press connections	N/A
Vacuum pump connection	Drain valve*1
Oil sampling device	Drain valve with sampler*1
Thermowell	Thermal pocket*1
Dial thermometer for oil	Oil temperature indicator*1
Temperature detector	Oil RTD - PT100 – 1Un Winding temperature monitoring devices – 1 Un.

Pressure valve	Over pressure valve relay with 2 SPDT aux contact
Fault Pressure relay	N/A
Radiator isolating devices Skids	N/A
Swivel wheels	N/A
Jacking points	Yes
Hooks for horizontal traction	N/A
Lugs for lifting removable	Lifting lug
Lugs for lifting whole machine	Lifting lug
Lugs for lifting cooler	Yes
Earthing terminal	Yes
Control panel of auxiliary devices	N/A
Oil liquid level indicator	Liquid level indicator
Nameplates	2
Openings & Hatches	N/A
H.V. cable supports and clamps	Yes
M.V. cable supports and clamps	Yes
Transformer temperature monitoring device	Yes

Dimensions & weights

Oil Overall length	2880mm
Overall width	2100mm
Overall height	2510mm
Total weight	15000kg
Oil weight	3500kg
Active part length	2388mm
Active part width	1018mm
Active part height	2560mm
Active part weight	6200kg

3. Actual conditions

All material is stored outdoors in two adjacent areas. All material is still in their original packaging. This material was delivered in 2021, the technology is up to date. The products available are of high quality and the quantity available is relevant.



Figura 4: Storage status 1



Figura 5: Storage status 2





Figura 7: Panels storage condition



Figura 6: Panels storage condition 2

3.1 Part number and Serial numbers

3.1.1 String Inverter

Inverter unit	OEM	Model	Serial
1	Sungrow	SG250HX-V116_S	A2172300485
2	Sungrow	SG250HX-V116_S	A2172300495
3	Sungrow	SG250HX-V116_S	A2172300497
4	Sungrow	SG250HX-V116_S	A2172300498
5	Sungrow	SG250HX-V116_S	A2172300501
6	Sungrow	SG250HX-V116_S	A2172300505
7	Sungrow	SG250HX-V116_S	A2172300506
8	Sungrow	SG250HX-V116_S	A2172300507
9	Sungrow	SG250HX-V116_S	A2172300508
10	Sungrow	SG250HX-V116_S	A2172300509
11	Sungrow	SG250HX-V116_S	A2172300511
12	Sungrow	SG250HX-V116_S	A2172300515
13	Sungrow	SG250HX-V116_S	A2172300516
14	Sungrow	SG250HX-V116_S	A2172300517
15	Sungrow	SG250HX-V116_S	A2172300522
16	Sungrow	SG250HX-V116_S	A2172300524
17	Sungrow	SG250HX-V116_S	A2172300525
18	Sungrow	SG250HX-V116_S	A2172300527
19	Sungrow	SG250HX-V116_S	A2172300529
20	Sungrow	SG250HX-V116_S	A2172300531
21	Sungrow	SG250HX-V116_S	A2172300532
22	Sungrow	SG250HX-V116_S	A2172300536
23	Sungrow	SG250HX-V116_S	A2172300540
24	Sungrow	SG250HX-V116_S	A2172300543
25	Sungrow	SG250HX-V116_S	A2172300544
26	Sungrow	SG250HX-V116_S	A2172300545
27	Sungrow	SG250HX-V116_S	A2172300546
28	Sungrow	SG250HX-V116_S	A2172300547
29	Sungrow	SG250HX-V116_S	A2172300548
30	Sungrow	SG250HX-V116_S	A2172300549
31	Sungrow	SG250HX-V116_S	A2172300550
32	Sungrow	SG250HX-V116_S	A2172300551
33	Sungrow	SG250HX-V116_S	A2172300552
34	Sungrow	SG250HX-V116_S	A2172300553
35	Sungrow	SG250HX-V116_S	A2172300554
36	Sungrow	SG250HX-V116_S	A2172300555
37	Sungrow	SG250HX-V116_S	A2172300556
38	Sungrow	SG250HX-V116_S	A2172300557
39	Sungrow	SG250HX-V116_S	A2172300558
40	Sungrow	SG250HX-V116_S	A2172300559

41	Sungrow	SG250HX-V116_S	A2172300560
42	Sungrow	SG250HX-V116_S	A2172300561
43	Sungrow	SG250HX-V116_S	A2172300562
44	Sungrow	SG250HX-V116_S	A2172300563
45	Sungrow	SG250HX-V116_S	A2172300564
46	Sungrow	SG250HX-V116_S	A2172300565
47	Sungrow	SG250HX-V116_S	A2172300566
48	Sungrow	SG250HX-V116_S	A2172300567
49	Sungrow	SG250HX-V116_S	A2172300568
50	Sungrow	SG250HX-V116_S	A2172300570
51	Sungrow	SG250HX-V116_S	A2172300571
52	Sungrow	SG250HX-V116_S	A2172300572
53	Sungrow	SG250HX-V116_S	A2172300573
54	Sungrow	SG250HX-V116_S	A2172300574
55	Sungrow	SG250HX-V116_S	A2172300575
56	Sungrow	SG250HX-V116_S	A2172300576
57	Sungrow	SG250HX-V116_S	A2172300577
58	Sungrow	SG250HX-V116_S	A2172300578
59	Sungrow	SG250HX-V116_S	A2172300579
60	Sungrow	SG250HX-V116_S	A2172300580
61	Sungrow	SG250HX-V116_S	A2172300583
62	Sungrow	SG250HX-V116_S	A2172300584
63	Sungrow	SG250HX-V116_S	A2172300585
64	Sungrow	SG250HX-V116_S	A2172300586
65	Sungrow	SG250HX-V116_S	A2172300587
66	Sungrow	SG250HX-V116_S	A2172300588
67	Sungrow	SG250HX-V116_S	A2172300589
68	Sungrow	SG250HX-V116_S	A2172300590
69	Sungrow	SG250HX-V116_S	A2172300591
70	Sungrow	SG250HX-V116_S	A2172300592
71	Sungrow	SG250HX-V116_S	A2172300593
72	Sungrow	SG250HX-V116_S	A2172300595
73	Sungrow	SG250HX-V116_S	A2172300596
74	Sungrow	SG250HX-V116_S	A2172300597
75	Sungrow	SG250HX-V116_S	A2172300598
76	Sungrow	SG250HX-V116_S	A2172300599
77	Sungrow	SG250HX-V116_S	A2172300600
78	Sungrow	SG250HX-V116_S	A2172300601
79	Sungrow	SG250HX-V116_S	A2172300602
80	Sungrow	SG250HX-V116_S	A2172300603
81	Sungrow	SG250HX-V116_S	A2172300604
82	Sungrow	SG250HX-V116_S	A2172300605
83	Sungrow	SG250HX-V116_S	A2172300606
84	Sungrow	SG250HX-V116_S	A2172300607
85	Sungrow	SG250HX-V116_S	A2172300608

86	Sungrow	SG250HX-V116_S	A2172300609
87	Sungrow	SG250HX-V116_S	A2172300610
88	Sungrow	SG250HX-V116_S	A2172300611
89	Sungrow	SG250HX-V116_S	A2172300612
90	Sungrow	SG250HX-V116_S	A2172300613
91	Sungrow	SG250HX-V116_S	A2172300614
92	Sungrow	SG250HX-V116_S	A2172300615
93	Sungrow	SG250HX-V116_S	A2172300616
94	Sungrow	SG250HX-V116_S	A2172300617
95	Sungrow	SG250HX-V116_S	A2172300618
96	Sungrow	SG250HX-V116_S	A2172300619
97	Sungrow	SG250HX-V116_S	A2172300620
98	Sungrow	SG250HX-V116_S	A2172300621
99	Sungrow	SG250HX-V116_S	A2172300624
100	Sungrow	SG250HX-V116_S	A2172300625
101	Sungrow	SG250HX-V116_S	A2172300626
102	Sungrow	SG250HX-V116_S	A2172300627
103	Sungrow	SG250HX-V116_S	A2172300628
104	Sungrow	SG250HX-V116_S	A2172300631
105	Sungrow	SG250HX-V116_S	A2172300632
106	Sungrow	SG250HX-V116_S	A2172300633
107	Sungrow	SG250HX-V116_S	A2172300634
108	Sungrow	SG250HX-V116_S	A2172300638
109	Sungrow	SG250HX-V116_S	A2172300639
110	Sungrow	SG250HX-V116_S	A2172300641
111	Sungrow	SG250HX-V116_S	A2172300642
112	Sungrow	SG250HX-V116_S	A2172300644
113	Sungrow	SG250HX-V116_S	A2172300645
114	Sungrow	SG250HX-V116_S	A2172300646
115	Sungrow	SG250HX-V116_S	A2172300647
116	Sungrow	SG250HX-V116_S	A2172300648
117	Sungrow	SG250HX-V116_S	A2172300649
118	Sungrow	SG250HX-V116_S	A2172300650
119	Sungrow	SG250HX-V116_S	A2172300651
120	Sungrow	SG250HX-V116_S	A2172300652
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123	Sungrow	SG250HX-V116_S	A2172300655
124	Sungrow	SG250HX-V116_S	A2172300656
125	Sungrow	SG250HX-V116_S	A2172300657
126	Sungrow	SG250HX-V116_S	A2172300658
127	Sungrow	SG250HX-V116_S	A2172300659
128	Sungrow	SG250HX-V116_S	A2172300660
129	Sungrow	SG250HX-V116_S	A2172300661
130	Sungrow	SG250HX-V116_S	A2172300662

131	Sungrow	SG250HX-V116_S	A2172300663
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133	Sungrow	SG250HX-V116_S	A2172300665
134	Sungrow	SG250HX-V116_S	A2172300666
135	Sungrow	SG250HX-V116_S	A2172300668
136	Sungrow	SG250HX-V116_S	A2172300669
137	Sungrow	SG250HX-V116_S	A2172300670
138	Sungrow	SG250HX-V116_S	A2172300672
139	Sungrow	SG250HX-V116_S	A2172300673
140	Sungrow	SG250HX-V116_S	A2172300674
141	Sungrow	SG250HX-V116_S	A2172300675
142	Sungrow	SG250HX-V116_S	A2172300676
143	Sungrow	SG250HX-V116_S	A2172400022
144	Sungrow	SG250HX-V116_S	A2172400023
145	Sungrow	SG250HX-V116_S	A2172400024
146	Sungrow	SG250HX-V116_S	A2172400025
147	Sungrow	SG250HX-V116_S	A2172400030
148	Sungrow	SG250HX-V116_S	A2172400032
149	Sungrow	SG250HX-V116_S	A2172400033
150	Sungrow	SG250HX-V116_S	A2172400034
151	Sungrow	SG250HX-V116_S	A2172400035
152	Sungrow	SG250HX-V116_S	A2172400036
153	Sungrow	SG250HX-V116_S	A2172400037
154	Sungrow	SG250HX-V116_S	A2172400038
155	Sungrow	SG250HX-V116_S	A2172400039
156	Sungrow	SG250HX-V116_S	A2172400041
157	Sungrow	SG250HX-V116_S	A2172400042
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506	Sungrow	SG250HX-V116_S	A2172300530
507	Sungrow	SG250HX-V116_S	A2172300533
508	Sungrow	SG250HX-V116_S	A2172300534
509	Sungrow	SG250HX-V116_S	A2172300535
510	Sungrow	SG250HX-V116_S	A2172300537
511	Sungrow	SG250HX-V116_S	A2172300538
512	Sungrow	SG250HX-V116_S	A2172300539
513	Sungrow	SG250HX-V116_S	A2172300541
514	Sungrow	SG250HX-V116_S	A2172300542
515	Sungrow	SG250HX-V116_S	A2172300569
516	Sungrow	SG250HX-V116_S	A2172300581
517	Sungrow	SG250HX-V116_S	A2172300582
518	Sungrow	SG250HX-V116_S	A2172300594
519	Sungrow	SG250HX-V116_S	A2172300622
520	Sungrow	SG250HX-V116_S	A2172300595
521	Sungrow	SG250HX-V116_S	A2173103761
522	Sungrow	SG250HX-V116_S	A2173103762
523	Sungrow	SG250HX-V116_S	A2173103765
524	Sungrow	SG250HX-V116_S	A2173103766
525	Sungrow	SG250HX-V116_S	A2173103767
526	Sungrow	SG250HX-V116_S	A2173103768
527	Sungrow	SG250HX-V116_S	A2173103769
528	Sungrow	SG250HX-V116_S	A2173103770
529	Sungrow	SG250HX-V116_S	A2173103771

530	Sungrow	SG250HX-V116_S	A2173103772
531	Sungrow	SG250HX-V116_S	A2173103774
532	Sungrow	SG250HX-V116_S	A2173103775
533	Sungrow	SG250HX-V116_S	A2173103777
534	Sungrow	SG250HX-V116_S	A2173103778
535	Sungrow	SG250HX-V116_S	A2173103779
536	Sungrow	SG250HX-V116_S	A2173103781
537	Sungrow	SG250HX-V116_S	A2173103783
538	Sungrow	SG250HX-V116_S	A2173103784
539	Sungrow	SG250HX-V116_S	A2173103786
540	Sungrow	SG250HX-V116_S	A2173103787
541	Sungrow	SG250HX-V116_S	A2173103788
542	Sungrow	SG250HX-V116_S	A2173103789
543	Sungrow	SG250HX-V116_S	A2173103790
544	Sungrow	SG250HX-V116_S	A2173103791
545	Sungrow	SG250HX-V116_S	A2173103792
546	Sungrow	SG250HX-V116_S	A2173103793
547	Sungrow	SG250HX-V116_S	A2173103796
548	Sungrow	SG250HX-V116_S	A2173103801
549	Sungrow	SG250HX-V116_S	A2173103802
550	Sungrow	SG250HX-V116_S	A2173103803
551	Sungrow	SG250HX-V116_S	A2173103804
552	Sungrow	SG250HX-V116_S	A2173103805
553	Sungrow	SG250HX-V116_S	A2173103806
554	Sungrow	SG250HX-V116_S	A2173103807
555	Sungrow	SG250HX-V116_S	A2173103808
556	Sungrow	SG250HX-V116_S	A2173103809
557	Sungrow	SG250HX-V116_S	A2173103810
558	Sungrow	SG250HX-V116_S	A2173103811
559	Sungrow	SG250HX-V116_S	A2173103812
560	Sungrow	SG250HX-V116_S	A2173103813
561	Sungrow	SG250HX-V116_S	A2173103814
562	Sungrow	SG250HX-V116_S	A2173103815
563	Sungrow	SG250HX-V116_S	A2173103817
564	Sungrow	SG250HX-V116_S	A2173103819
565	Sungrow	SG250HX-V116_S	A2173103820
566	Sungrow	SG250HX-V116_S	A2173103821
567	Sungrow	SG250HX-V116_S	A2173103822
568	Sungrow	SG250HX-V116_S	A2173103824
569	Sungrow	SG250HX-V116_S	A2173103825
570	Sungrow	SG250HX-V116_S	A2173103826
571	Sungrow	SG250HX-V116_S	A2173103827
572	Sungrow	SG250HX-V116_S	A2173103828
573	Sungrow	SG250HX-V116_S	A2173103829
574	Sungrow	SG250HX-V116_S	A2173103830

575	Sungrow	SG250HX-V116_S	A2173103832
576	Sungrow	SG250HX-V116_S	A2173103833
577	Sungrow	SG250HX-V116_S	A2173103834
578	Sungrow	SG250HX-V116_S	A2173103835
579	Sungrow	SG250HX-V116_S	A2173103836
580	Sungrow	SG250HX-V116_S	A2173103837
581	Sungrow	SG250HX-V116_S	A2173103838
582	Sungrow	SG250HX-V116_S	A2173103839
583	Sungrow	SG250HX-V116_S	A2173103840
584	Sungrow	SG250HX-V116_S	A2173103841
585	Sungrow	SG250HX-V116_S	A2173103842
586	Sungrow	SG250HX-V116_S	A2173103843
587	Sungrow	SG250HX-V116_S	A2173103844
588	Sungrow	SG250HX-V116_S	A2173103846
589	Sungrow	SG250HX-V116_S	A2173103847
590	Sungrow	SG250HX-V116_S	A2173103848
591	Sungrow	SG250HX-V116_S	A2173103849
592	Sungrow	SG250HX-V116_S	A2173103850
593	Sungrow	SG250HX-V116_S	A2173103851
594	Sungrow	SG250HX-V116_S	A2173103852
595	Sungrow	SG250HX-V116_S	A2173103853
596	Sungrow	SG250HX-V116_S	A2173103854
597	Sungrow	SG250HX-V116_S	A2173103855
598	Sungrow	SG250HX-V116_S	A2173103856
599	Sungrow	SG250HX-V116_S	A2173103857
600	Sungrow	SG250HX-V116_S	A2173103858
601	Sungrow	SG250HX-V116_S	A2180302746
602	Sungrow	SG250HX-V116_S	A2180302747
603	Sungrow	SG250HX-V116_S	A2180302748
604	Sungrow	SG250HX-V116_S	A2180302749
605	Sungrow	SG250HX-V116_S	A2180302750
606	Sungrow	SG250HX-V116_S	A2180302752
607	Sungrow	SG250HX-V116_S	A2180302753
608	Sungrow	SG250HX-V116_S	A2180302754
609	Sungrow	SG250HX-V116_S	A2180302755
610	Sungrow	SG250HX-V116_S	A2180302756
611	Sungrow	SG250HX-V116_S	A2180302757
612	Sungrow	SG250HX-V116_S	A2180302758
613	Sungrow	SG250HX-V116_S	A2180302759
614	Sungrow	SG250HX-V116_S	A2180302760
615	Sungrow	SG250HX-V116_S	A2180302761
616	Sungrow	SG250HX-V116_S	A2180302762
617	Sungrow	SG250HX-V116_S	A2180302763
618	Sungrow	SG250HX-V116_S	A2180302764
619	Sungrow	SG250HX-V116_S	A2180302765

620	Sungrow	SG250HX-V116_S	A2180302766
621	Sungrow	SG250HX-V116_S	A2180302767
622	Sungrow	SG250HX-V116_S	A2180302768
623	Sungrow	SG250HX-V116_S	A2180302769
624	Sungrow	SG250HX-V116_S	A2180302770
625	Sungrow	SG250HX-V116_S	A2180302771
626	Sungrow	SG250HX-V116_S	A2180302772
627	Sungrow	SG250HX-V116_S	A2180302773
628	Sungrow	SG250HX-V116_S	A2180302774
629	Sungrow	SG250HX-V116_S	A2180302776
630	Sungrow	SG250HX-V116_S	A2180302777
631	Sungrow	SG250HX-V116_S	A2180302779
632	Sungrow	SG250HX-V116_S	A2180302780
633	Sungrow	SG250HX-V116_S	A2180302781
634	Sungrow	SG250HX-V116_S	A2180302782
635	Sungrow	SG250HX-V116_S	A2180302783
636	Sungrow	SG250HX-V116_S	A2180302784
637	Sungrow	SG250HX-V116_S	A2180302786
638	Sungrow	SG250HX-V116_S	A2180302787
639	Sungrow	SG250HX-V116_S	A2180302789
640	Sungrow	SG250HX-V116_S	A2180302790

Table 2: inverter data

3.1.2 LV MV Tranformer Cabinet

Unit	OEM	Model	Serial
1	Sungrow	SFL-6300/33	A21C2231868
2	Sungrow	SFL-6300/33	A2210407675
3	Sungrow	SFL-6300/33	A2211700423
4	Sungrow	SFL-6300/33	A2211700410
5	Sungrow	SFL-6300/33	A21C2331864
6	Sungrow	SFL-6300/33	A2210900658
7	Sungrow	SFL-6300/33	A2210407677
8	Sungrow	SFL-6300/33	A21C2331867
9	Sungrow	SFL-6300/33	A2210407674
10	Sungrow	SFL-6300/33	A2210407676
11	Sungrow	SFL-6300/33	A2210900654
12	Sungrow	SFL-6300/33	A21C2331865
13	Sungrow	SFL-6300/33	A2210407673
14	Sungrow	SFL-6300/33	A2210407671
15	Sungrow	SFL-6300/33	A2211700412
16	Sungrow	SFL-6300/33	A2211700418
17	Sungrow	SFL-6300/33	A2211700425
18	Sungrow	SFL-6300/33	A2211700446
19	Sungrow	SFL-6300/33	A2211700472

Table 3: LV MV Transformer Cabinet

3.2 Scope of Supply

Position	Quantity	Description
1000		Photovoltaic solar power plant equipment
1001	199'381	Panels • Longi • LR4-72HBD
1002	640	String Inverter • Sungrow • SG250HX-V116_S
1003	19	LV MV Tranformer Cabin • Sungrow • SFL-6300/33

Table 3: scope of supply.

3.3 Exclusions

Scope not explicitly listed in the Scope of Supply (Table 3) is excluded.
The following items are explicitly excluded:

Mechanical
Modification of any existing systems not explicitly cited.
Missing parts and components.
Electrical
Modification of existing systems not explicitly cited.
Cables, missing parts and components.
Civil
Land preparation
Temporary accesses and final accessing roads
Security plan and hardware.
Temporary accommodation
Finishing and fencing
First aid station and ambulances
Waste disposal facility

Table 4: exclusions from the Scope of Supply.

Project Management
Attainability of installation, commissioning and operation permits, or any other permit.
Assessment and acceptance of safety relevant issues.
Any study, engineering, documentation, or other service.
Additional works resulting from changes in laws or any other reasons, for which EECC is not responsible.
Building of Site Facilities of any kind (lights, water supply and treatment, heating, power supply, etc.).
Custom duties and taxes.
Engineering
Design and detailed engineering of existing equipment.

Table 5: exclusions from scope of Services.

3.4 Technical documentation

Following documents are part of the technical documentation (list is preliminary):

Pos.	Document	Available
1	General	
1.1	Document & drawing list	yes
1.2	Technical data sheet	yes
1.3	Component manuals	yes
1.4	Quality documentation	yes

Table 6: technical documentation