
Table of Contents

1. Introduction.....	
1.1	
1.2 String Inverter Sungrow SG250 HX.....	
1.3 Sungrow LV MV Transformer Cabin SFL-6300/33	
1.4 Part number and Serial numbers.....	
1.5 Technical documentation.....	

Index of Tables

Table 3: inverter data	33
Table 5: LV MV Transformer Cabinet.....	34
Table 6: scope of supply	35
Table 7: exclusions from the Scope of Supply.....	36
Table 8: exclusions from scope of Services.....	36
Table 9: technical documentation.....	36

Index of Figures

Figura 2: SG250 HX	5
Figura 3: SFL-6300/33.....	7
Figura 5: Storage status 1.....	20
Figura 6: Storage status 2	20

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:

String Inverter	
Manufacturer	Sungrow
Model	SG250HXV116 S
Number of unit	452

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

General info	
Condition	New
Year of construction	2021
Country	

The Original Equipment Manufacturer warranty is still in force. 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.

2.2 String Inverter Sungrow SG250 HX

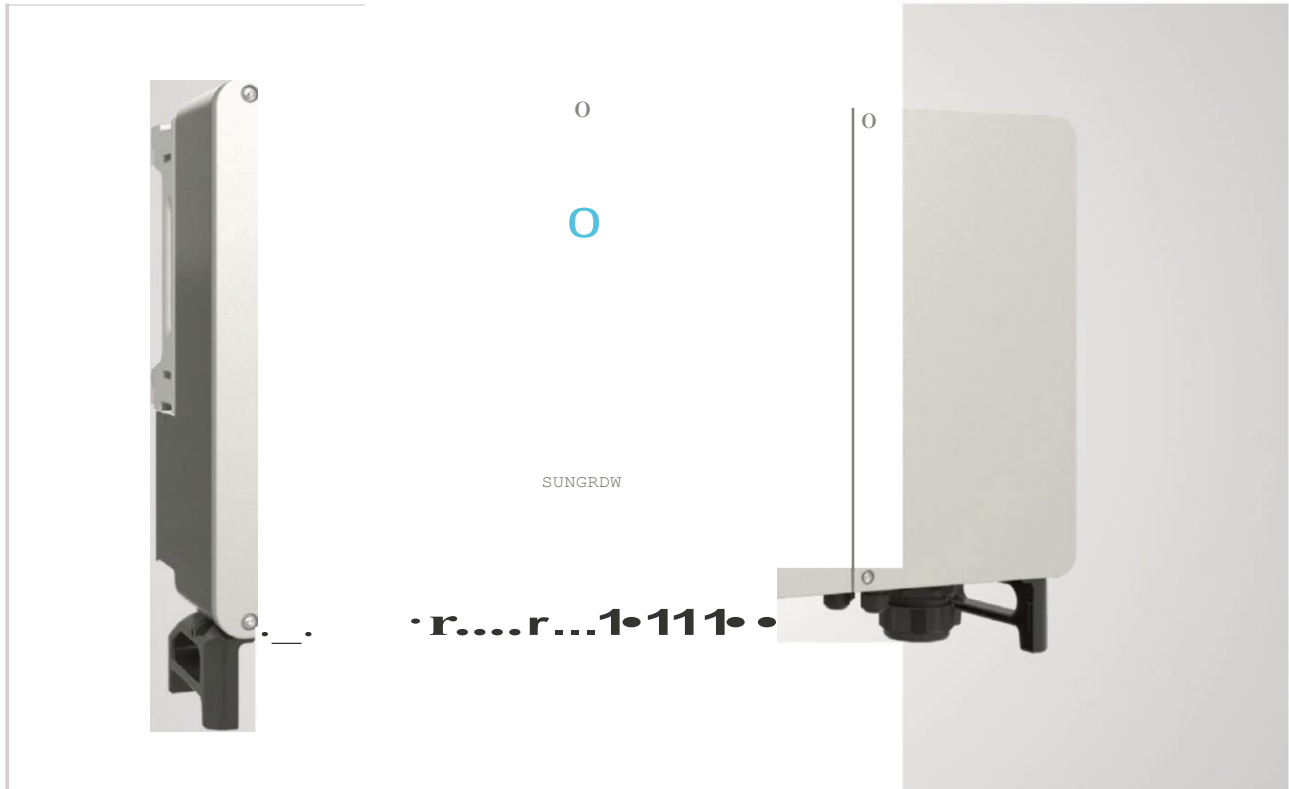


Figura 2: SG250 HX

HIGH YIELD

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

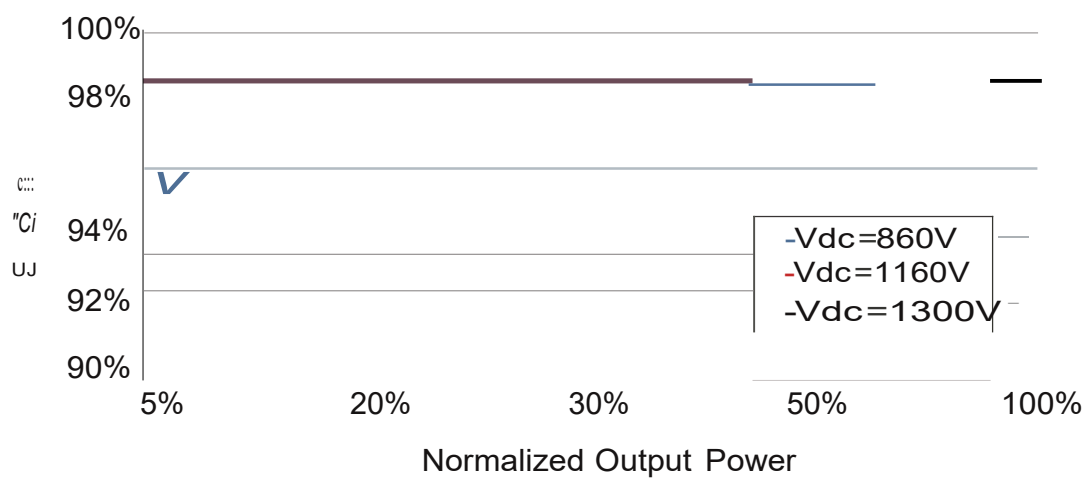


Table 1: inverted efficiency curve

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

2.4.1 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
THO	< 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-PIO and PIO 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 mm2, optional 10mm2)
AC connection type	OT/DT terminal (Max. 300 mm2)
Compliance	OT/DT terminal (Max. 300 mm2) 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

2.6.3 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 insulation level	3.6 kV
LV bushing type	Indoor

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 SPOT 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

41	Sungrow	SG250HX-V116	S	A2172300560
42	Sungrow	SG250HX-V116	S	A2172300561
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219	Sunorow	SG250HX-V116	S	A2172400130
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244	Sungrow	SG250HX-V116	S	A2172400155
245	Sungrow	SG250HX-V116	S	A2172400156
246	Sungrow	SG250HX-V116	S	A2172400159
247	Sungrow	SG250HX-V116	S	A2172400160
248	Sungrow	SG250HX-V116	S	A2172400161
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267	Sunorow	SG250HX-V116	S	A2172400193
268	Sunorow	SG250HX-V116	S	A2172400195
269	Sunorow	SG250HX-V116	S	A2172400196
270	Sunorow	SG250HX-V116	S	A2172400197
271	Sungrow	SG250HX-V116	S	A2172400198
272	Sunorow	SG250HX-V116	S	A2172400201
273	Sunorow	SG250HX-V116	S	A2172400202
274	Sunorow	SG250HX-V116	S	A2172400203
275	Sunorow	SG250HX-V116	S	A2172400204
276	Sunorow	SG250HX-V116	S	A2172400205
277	Sunorow	SG250HX-V116	S	A2172400207
278	Sungrow	SG250HX-V116	S	A2172400209
279	Sunorow	SG250HX-V116	S	A2172400211
280	Sungrow	SG250HX-V116	S	A2172400212
281	Sunorow	SG250HX-V116	S	A2172400213
282	Sunorow	SG250HX-V116	S	A2172400215
283	Sunorow	SG250HX-V116	S	A2172400218
284	Sunorow	SG250HX-V116	S	A2172400219
285	Sunorow	SG250HX-V116	S	A2173103659
286	Sungrow	SG250HX-V116	S	A2173103660
287	Sungrow	SG250HX-V116	S	A2173103661
288	Sunorow	SG250HX-V116	S	A2173103663
289	Sunorow	SG250HX-V116	S	A2173103664
290	Sunorow	SG250HX-V116	S	A2173103665
291	Sunorow	SG250HX-V116	S	A2173103666
292	Sunorow	SG250HX-V116	S	A2173103667
293	Sungrow	SG250HX-V116	S	A2173103668
294	Sunorow	SG250HX-V116	S	A2173103669
295	Sungrow	SG250HX-V116	S	A2173103671
296	Sunorow	SG250HX-V116	S	A2173103672
297	Sunorow	SG250HX-V116	S	A2173103674
298	Sunorow	SG250HX-V116	S	A2173103676
299	Sunorow	SG250HX-V116	S	A2173103677
300	Sunorow	SG250HX-V116	S	A2173103678
301	Sunorow	SG250HX-V116	S	A2173103680
302	Sungrow	SG250HX-V116	S	A2173103688
303	Sunorow	SG250HX-V116	S	A2173103689
304	Sunorow	SG250HX-V116	S	A2173103691
305	Sunorow	SG250HX-V116	S	A2173103692
306	Sunorow	SG250HX-V116	S	A2173103693
307	Sunorow	SG250HX-V116	S	A2173103695
308	Sunorow	SG250HX-V116	S	A2173103696
309	Sunorow	SG250HX-V116	S	A2173103697
310	Sungrow	SG250HX-V116_S		A2173103698

311	Sungrow	SG250HX-V116	S	A2173103700
312	Sungrow	SG250HX-V116	S	A2173103701
313	Sungrow	SG250HX-V116	S	A2173103702
314	Sungrow	SG250HX-V116	S	A2173103703
315	Sungrow	SG250HX-V116	S	A2173103705
316	Sungrow	SG250HX-V116	S	A2173103707
317	Sungrow	SG250HX-V116	S	A2173103708
318	Sungrow	SG250HX-V116	S	A2173103710
319	Sungrow	SG250HX-V116	S	A2173103711
320	Sungrow	SG250HX-V116	S	A2173103713
321	Sungrow	SG250HX-V116	S	A2173103721
322	Sungrow	SG250HX-V116	S	A2173103736
323	Sungrow	SG250HX-V116	S	A2173103739
324	Sungrow	SG250HX-V116	S	A2173103746
325	Sungrow	SG250HX-V116	S	A2173103747
326	Sungrow	SG250HX-V116	S	A2173103751
327	Sungrow	SG250HX-V116	S	A2173103759
328	Sungrow	SG250HX-V116	S	A2173103763
329	Sungrow	SG250HX-V116	S	A2173103764
330	Sungrow	SG250HX-V116	S	A2173103773
331	Sungrow	SG250HX-V116	S	A2173103776
332	Sungrow	SG250HX-V116	S	A2173103780
333	Sungrow	SG250HX-V116	S	A2173103782
334	Sungrow	SG250HX-V116	S	A2173103795
335	Sungrow	SG250HX-V116	S	A2173103797
336	Sungrow	SG250HX-V116	S	A2173103816
337	Sungrow	SG250HX-V116	S	A2173103818
338	Sungrow	SG250HX-V116	S	A2173103831
339	Sungrow	SG250HX-V116	S	A2180302775
340	Sungrow	SG250HX-V116	S	A2180302778
341	Sungrow	SG250HX-V116	S	A2180302805
342	Sungrow	SG250HX-V116	S	A2180302810
343	Sungrow	SG250HX-V116	S	A2180302819
344	Sungrow	SG250HX-V116	S	A2180302822
345	Sungrow	SG250HX-V116	S	A2180302824
346	Sungrow	SG250HX-V116	S	A2180302827
347	Sungrow	SG250HX-V116	S	A2180302828
348	Sungrow	SG250HX-V116	S	A2180302833
349	Sungrow	SG250HX-V116	S	A2180302846
350	Sungrow	SG250HX-V116	S	A2180302847
351	Sungrow	SG250HX-V116	S	A2180302853
352	Sungrow	SG250HX-V116	S	A2180302891
353	Sunorow	SG250HX-V116	S	A2180302893
354	Sungrow	SG250HX-V116	S	A2180302895
355	Sungrow	SG250HX-V116	S	A2172300479

356	Sunqrow	SG250HX-V116	S	A2172300480
357	Sunqrow	SG250HX-V116	S	A2172300481
358	Sunqrow	SG250HX-V116	S	A2172300482
359	Sunorow	SG250HX-V116	S	A2172300483
360	Sunorow	SG250HX-V116	S	A2172300484
361	Sunqrow	SG250HX-V116	S	A2172300486
362	Sunqrow	SG250HX-V116	S	A2172300487
363	Sunqrow	SG250HX-V116	S	A2172300488
364	Sunqrow	SG250HX-V116	S	A2172300489
365	Sunqrow	SG250HX-V116	S	A2172300490
366	Sunorow	SG250HX-V116	S	A2172300491
367	Sunorow	SG250HX-V116	S	A2172300492
368	Sunqrow	SG250HX-V116	S	A2172300493
369	Sunqrow	SG250HX-V116	S	A2172300494
370	Sunqrow	SG250HX-V116	S	A2172300496
371	Sunqrow	SG250HX-V116	S	A2172300499
372	Sunqrow	SG250HX-V116	S	A2172300500
373	Sunqrow	SG250HX-V116	S	A2172300502
374	Sunorow	SG250HX-V116	S	A2172300503
375	Sunorow	SG250HX-V116	S	A2172300504
376	Sunqrow	SG250HX-V116	S	A2172300510
377	Sunqrow	SG250HX-V116	S	A2172300512
378	Sunqrow	SG250HX-V116	S	A2172300513
379	Sunqrow	SG250HX-V116	S	A2172300514
380	Sunqrow	SG250HX-V116	S	A2172300518
381	Sunorow	SG250HX-V116	S	A2172300519
382	Sunorow	SG250HX-V116	S	A2172300520
383	Sunqrow	SG250HX-V116	S	A2172300521
384	Sunorow	SG250HX-V116	S	A2172300523
385	Sunqrow	SG250HX-V116	S	A2172300526
386	Sunqrow	SG250HX-V116	S	A2172300528
387	Sunqrow	SG250HX-V116	S	A2172300530
388	Sunqrow	SG250HX-V116	S	A2172300533
389	Sunqrow	SG250HX-V116	S	A2172300534
390	Sunorow	SG250HX-V116	S	A2172300535
391	Sunorow	SG250HX-V116	S	A2172300537
392	Sunqrow	SG250HX-V116	S	A2172300538
393	Sunqrow	SG250HX-V116	S	A2172300539
394	Sunqrow	SG250HX-V116	S	A2172300541
395	Sunqrow	SG250HX-V116	S	A2172300542
396	Sunqrow	SG250HX-V116	S	A2172300569
397	Sunorow	SG250HX-V116	S	A2172300581
398	Sunqrow	SG250HX-V116	S	A2172300582
399	Sunorow	SG250HX-V116	S	A2172300594
400	Sunqrow	SG250HX-V116_S		A2172300622

401	Sungrow	SG250HX-V116	S	A2172300629
402	Sungrow	SG250HX-V116	S	A2172300630
403	Sungrow	SG250HX-V116	S	A2172300635
404	Sungrow	SG250HX-V116	S	A2172300636
405	Sungrow	SG250HX-V116	S	A2172300637
406	Sungrow	SG250HX-V116	S	A2172300643
407	Sungrow	SG250HX-V116	S	A2172300667
408	Sungrow	SG250HX-V116	S	A2172300671
409	Sungrow	SG250HX-V116	S	A2172300677
410	Sungrow	SG250HX-V116	S	A2172300678
411	Sungrow	SG250HX-V116	S	A2172400020
412	Sungrow	SG250HX-V116	S	A2172400021
413	Sungrow	SG250HX-V116	S	A2172400026
414	Sungrow	SG250HX-V116	S	A2172400027
415	Sungrow	SG250HX-V116	S	A2172400028
416	Sungrow	SG250HX-V116	S	A2172400029
417	Sungrow	SG250HX-V116	S	A2172400031
418	Sungrow	SG250HX-V116	S	A2172400040
419	Sungrow	SG250HX-V116	S	A2172400044
420	Sungrow	SG250HX-V116	S	A2172400046
421	Sungrow	SG250HX-V116	S	A2172400050
422	Sungrow	SG250HX-V116	S	A2172400051
423	Sungrow	SG250HX-V116	S	A2172400052
424	Sungrow	SG250HX-V116	S	A2172400053
425	Sungrow	SG250HX-V116	S	A2172400054
426	Sungrow	SG250HX-V116	S	A2172400057
427	Sungrow	SG250HX-V116	S	A2172400059
428	Sungrow	SG250HX-V116	S	A2172400063
429	Sungrow	SG250HX-V116	S	A2172400064
430	Sungrow	SG250HX-V116	S	A2172400066
431	Sungrow	SG250HX-V116	S	A2172400067
432	Sungrow	SG250HX-V116	S	A2172400068
433	Sungrow	SG250HX-V116	S	A2172400069
434	Sungrow	SG250HX-V116	S	A2172400072
435	Sungrow	SG250HX-V116	S	A2172400079
436	Sungrow	SG250HX-V116	S	A2172400081
437	Sungrow	SG250HX-V116	S	A2172400095
438	Sungrow	SG250HX-V116	S	A2172400097
439	Sungrow	SG250HX-V116	S	A2172400098
440	Sungrow	SG250HX-V116	S	A2172400104
441	Sungrow	SG250HX-V116	S	A2172400105
442	Sungrow	SG250HX-V116	S	A2172400106
443	Sungrow	SG250HX-V116	S	A2172400107
444	Sungrow	SG250HX-V116	S	A2172400157
445	Sungrow	SG250HX-V116	S	A2172400158

446	Sunorow	SG250HX-V116	S	A2172400163
447	Sunorow	SG250HX-V116	S	A2172400170
448	Sunorow	SG250HX-V116	S	A2172400174
449	Sunorow	SG250HX-V116	S	A2172400175
450	Sunorow	SG250HX-V116	S	A2172400176
451	Sungrow	SG250HX-V116	S	A2172400177
452	Sungrow	SG250HX-V116_S		A2172400178

Table 3: inverter data

3.1.3 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	A2211700420
18	Sungrow	SFL-6300/33	A2211700413
19	Sungrow	SFL-6300/33	A2211700353

Table 5: LV MV Transformer Cabinet