

ATTACHMENT I

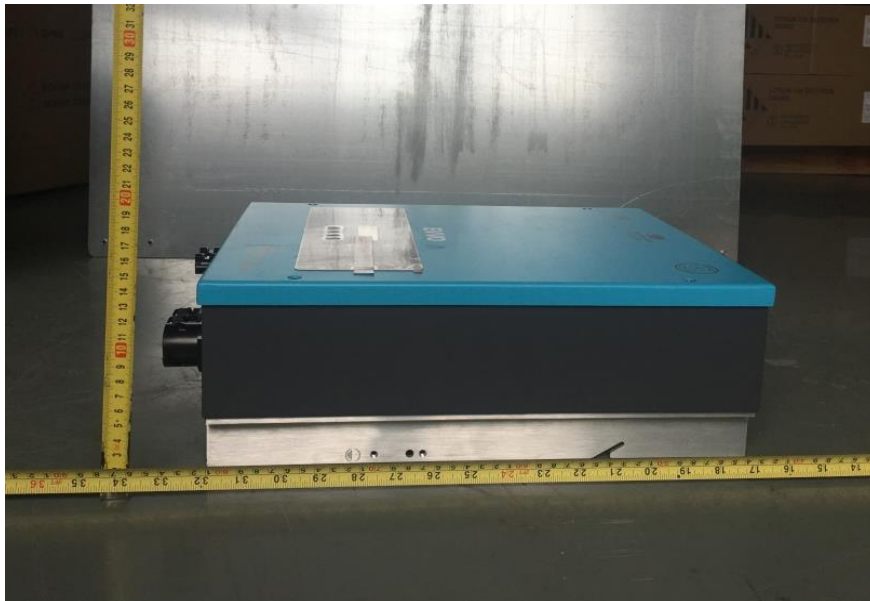
(Pictures of the EUT and Electrical Schemes)

1 PICTURES

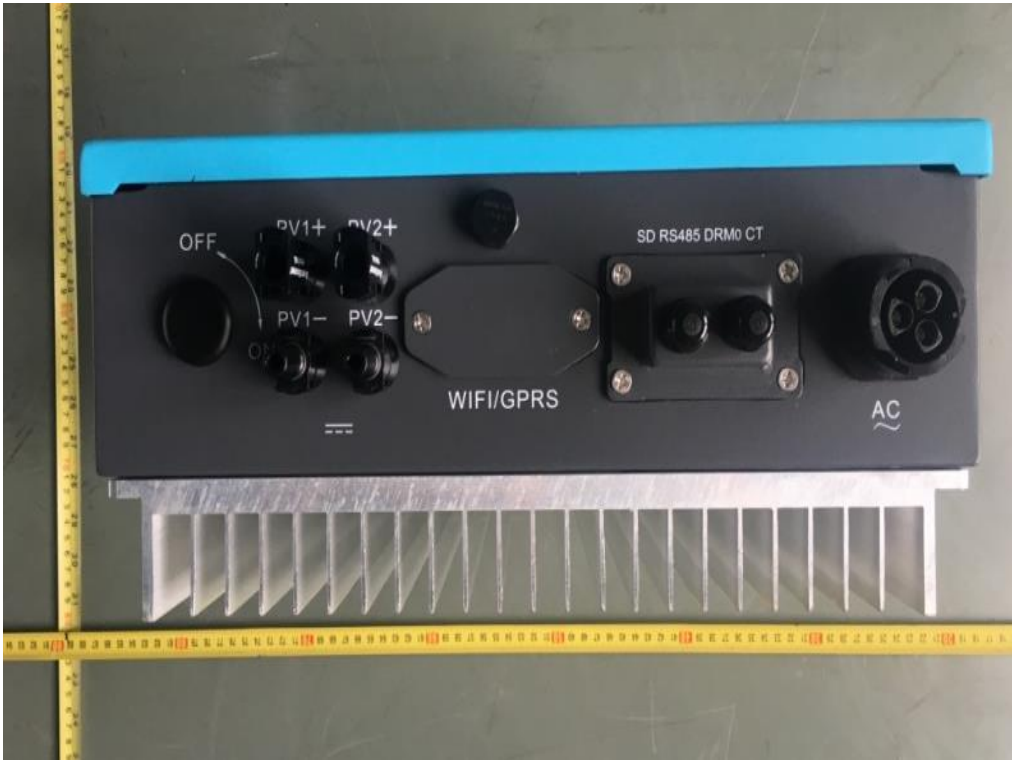
Front



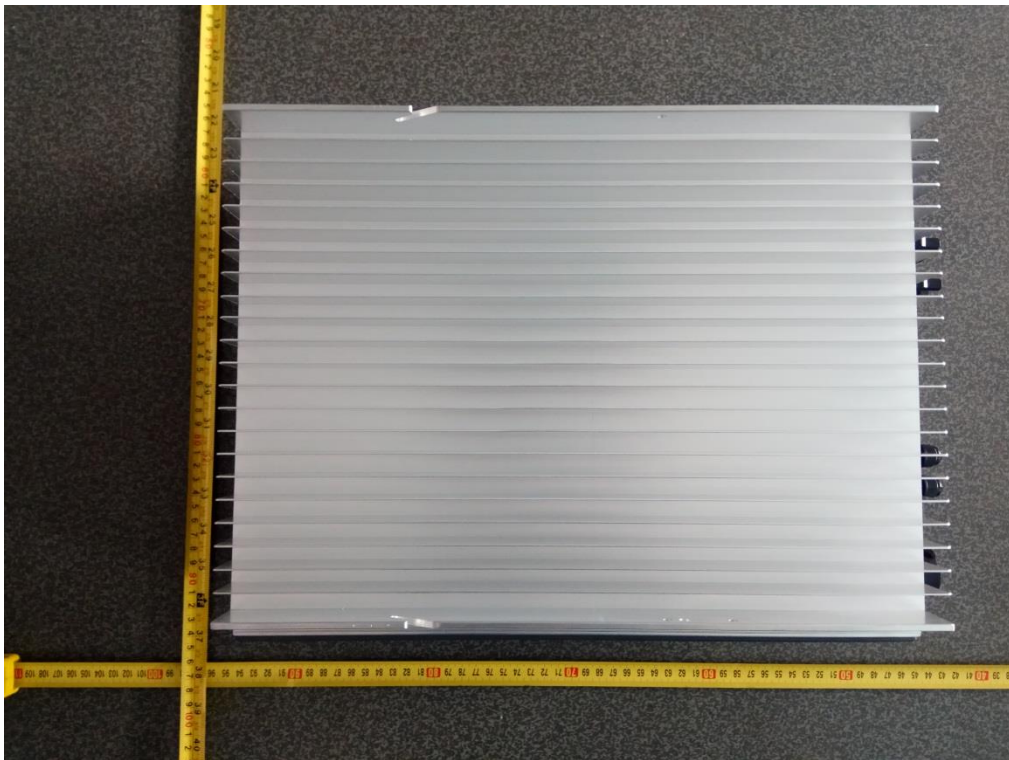
Side



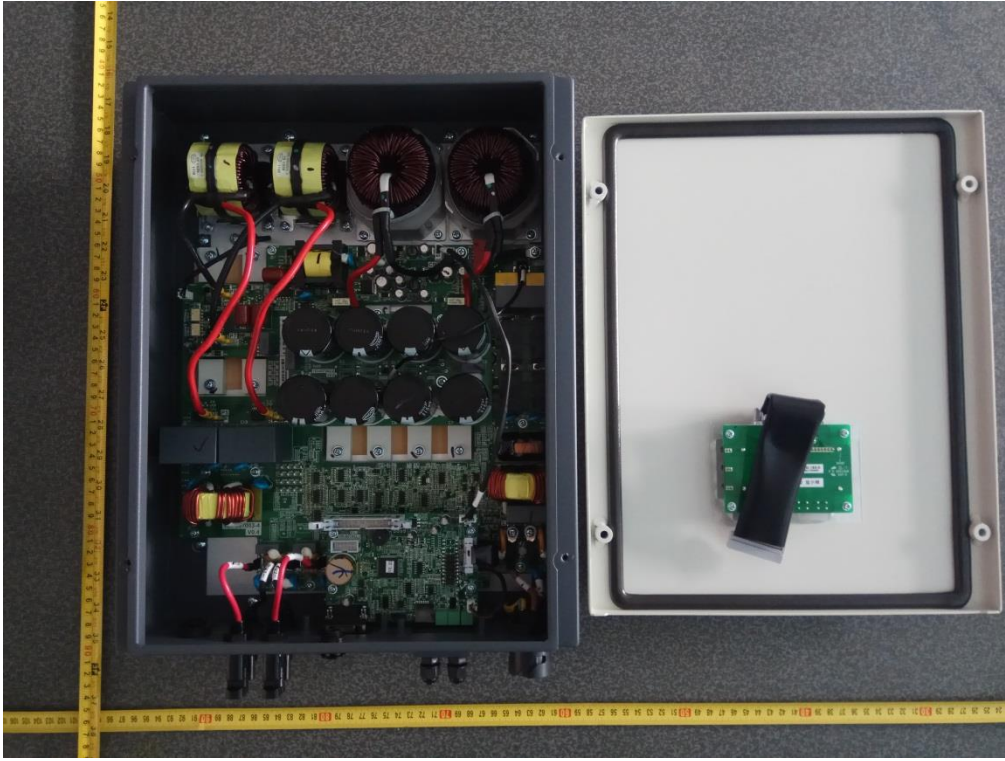
Connection interface



Back Side



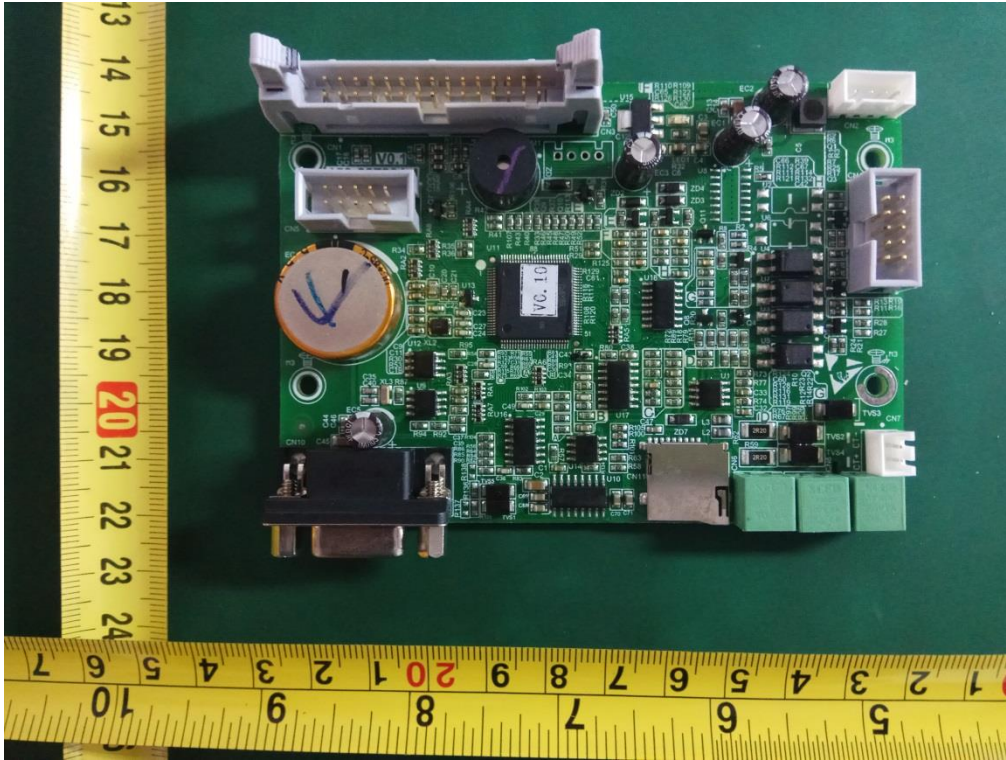
Internal



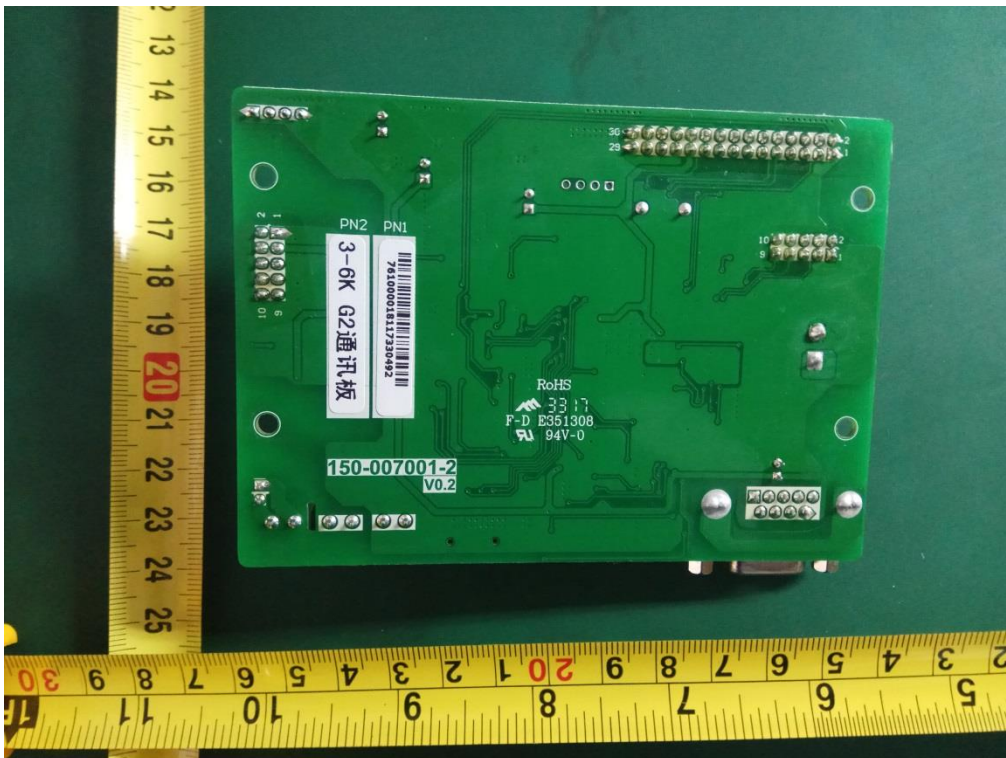
Internal



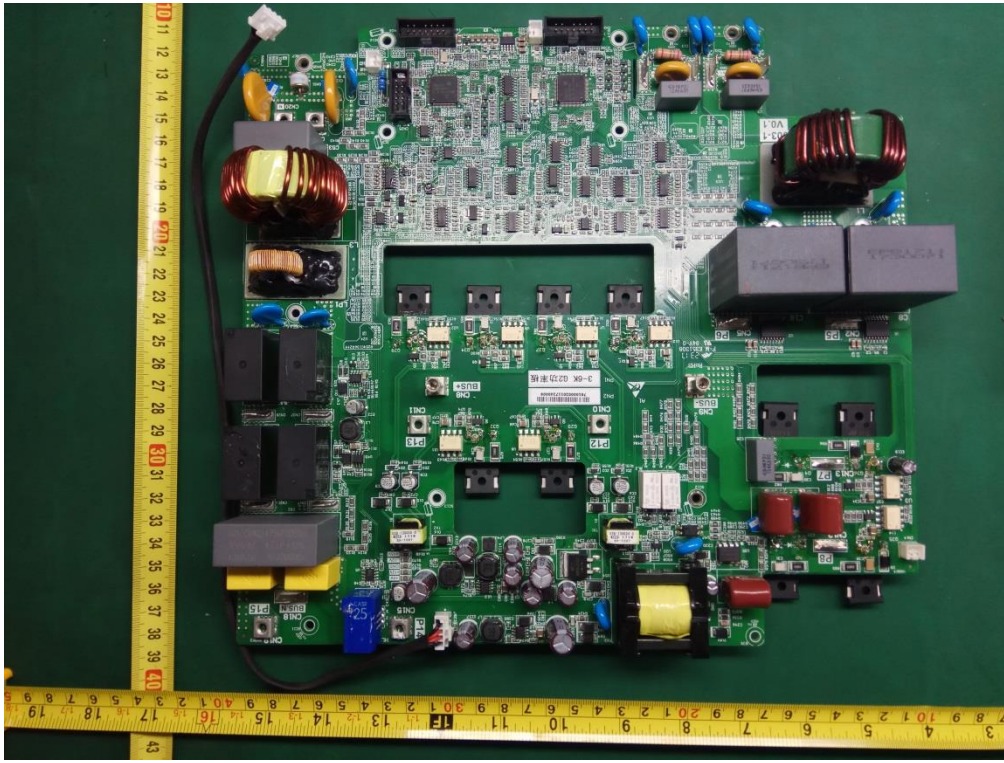
Front side of communication board



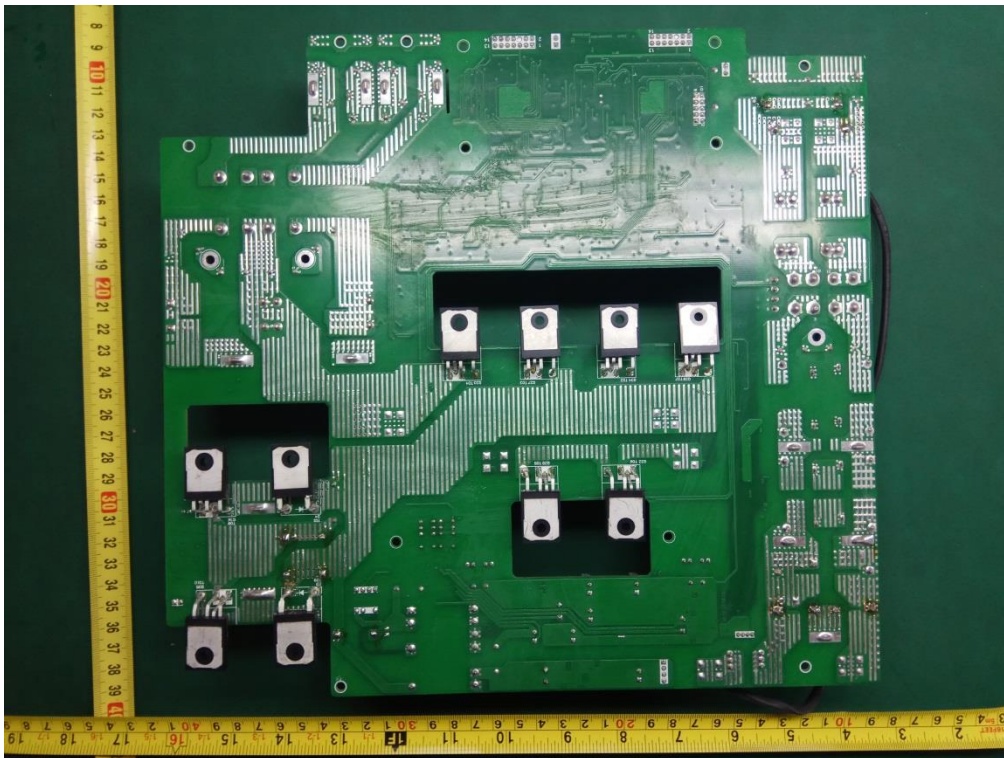
Back side of communication board



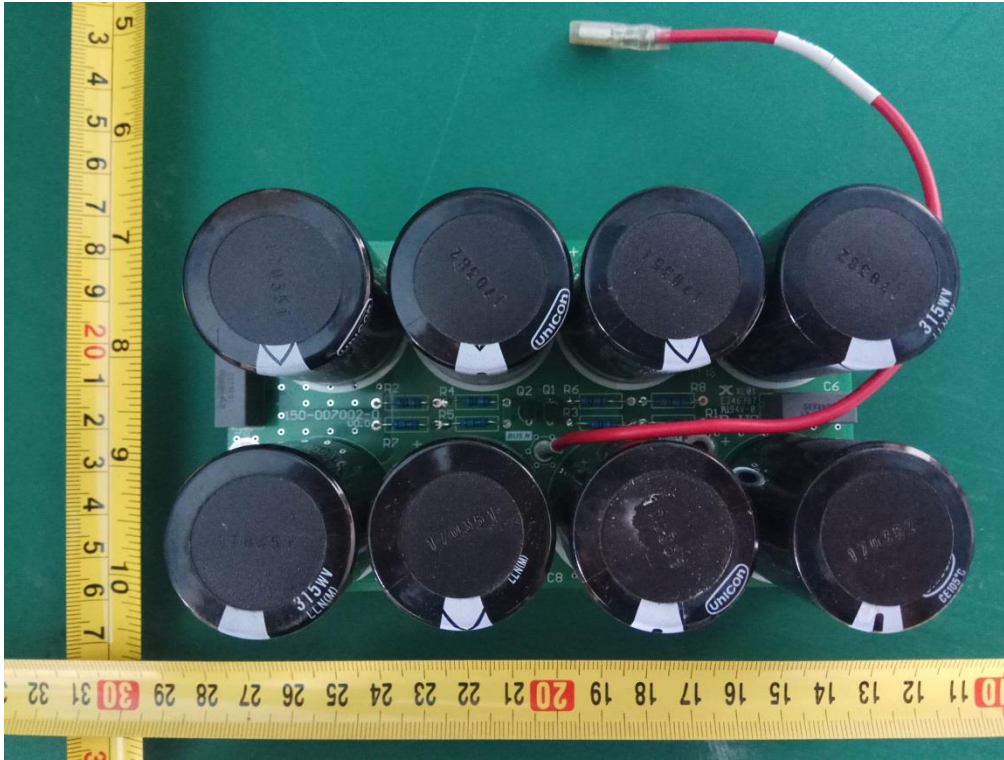
Front side of Main board



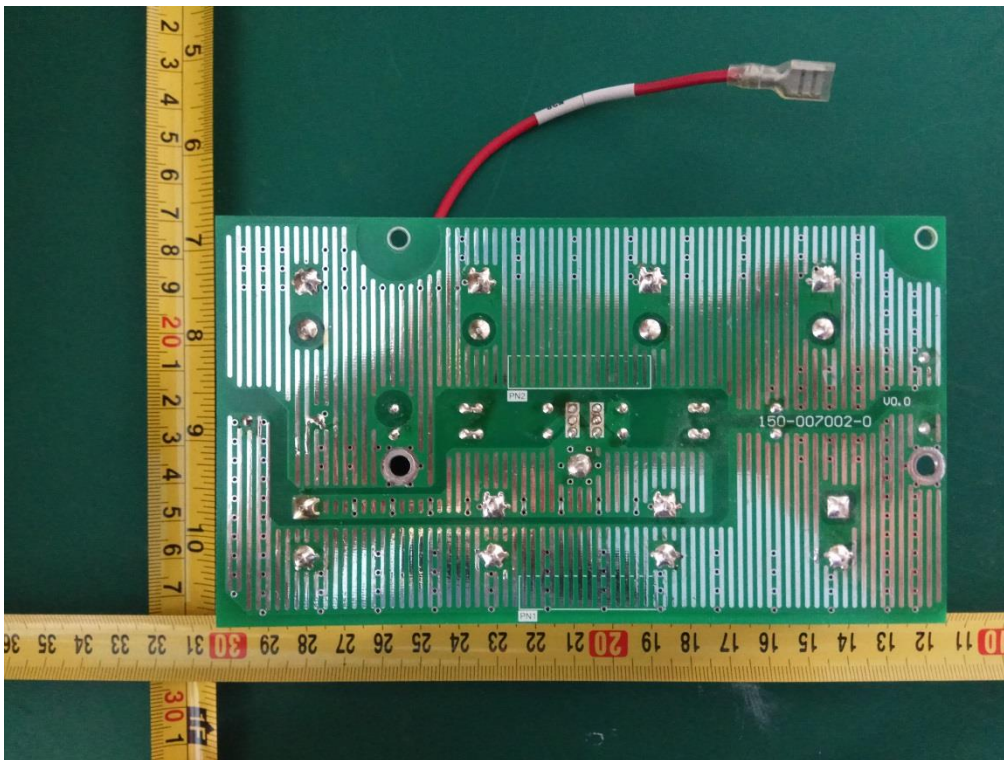
Front side of Main board



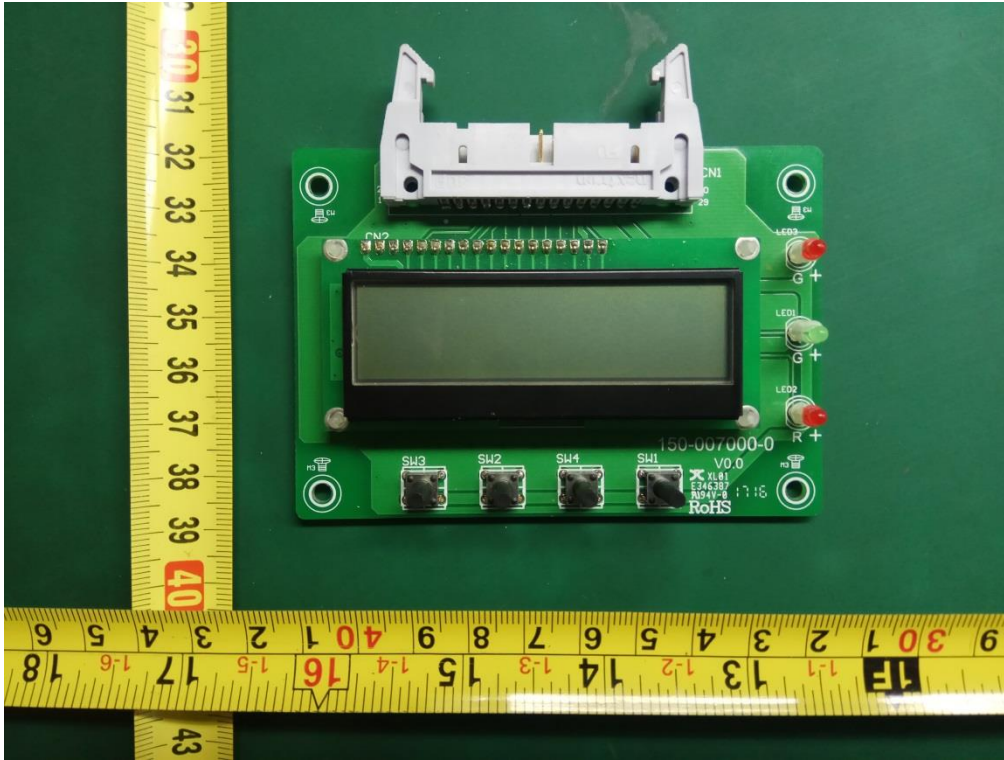
Front side of Bus capacitors board



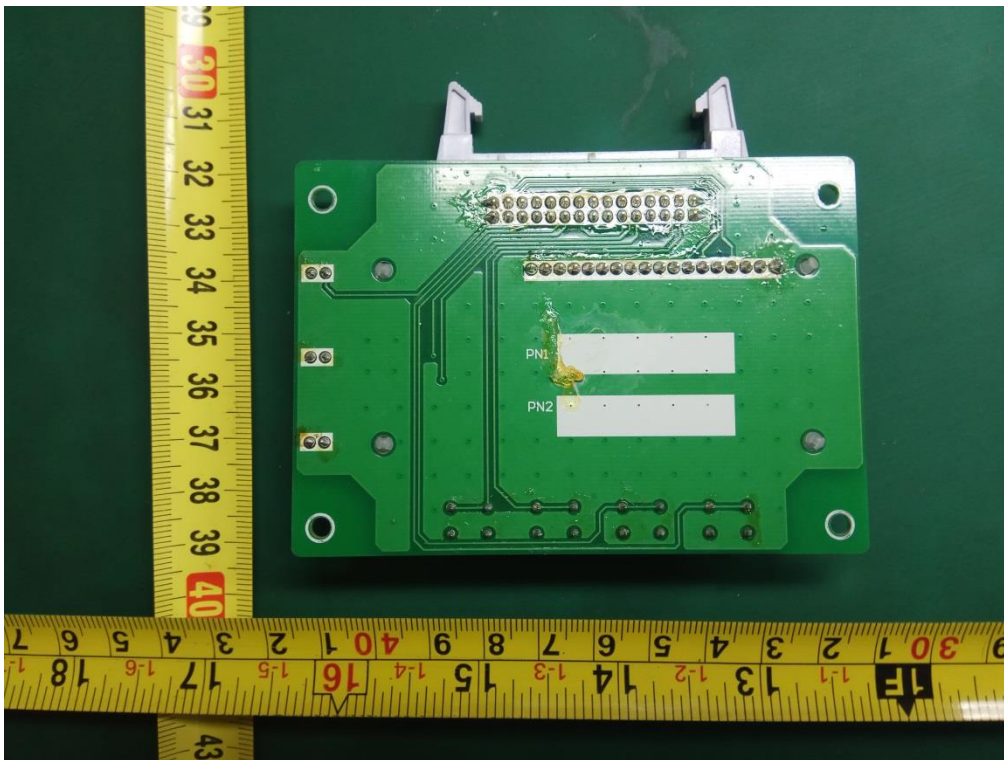
Back side of Bus capacitors board



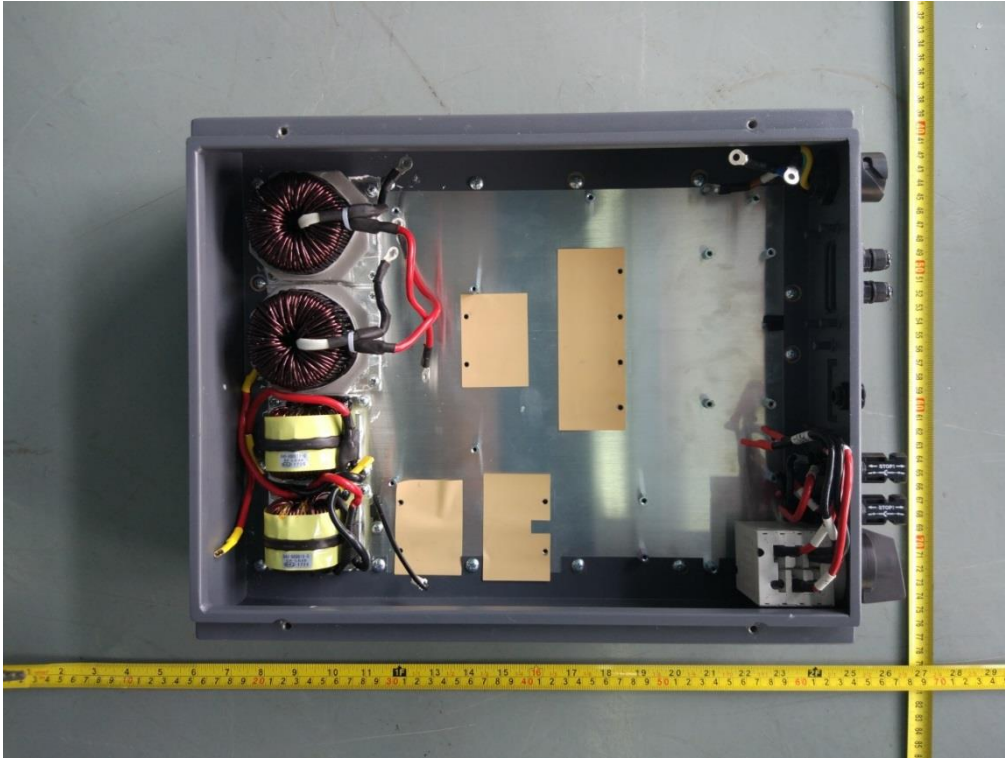
Front side of display board



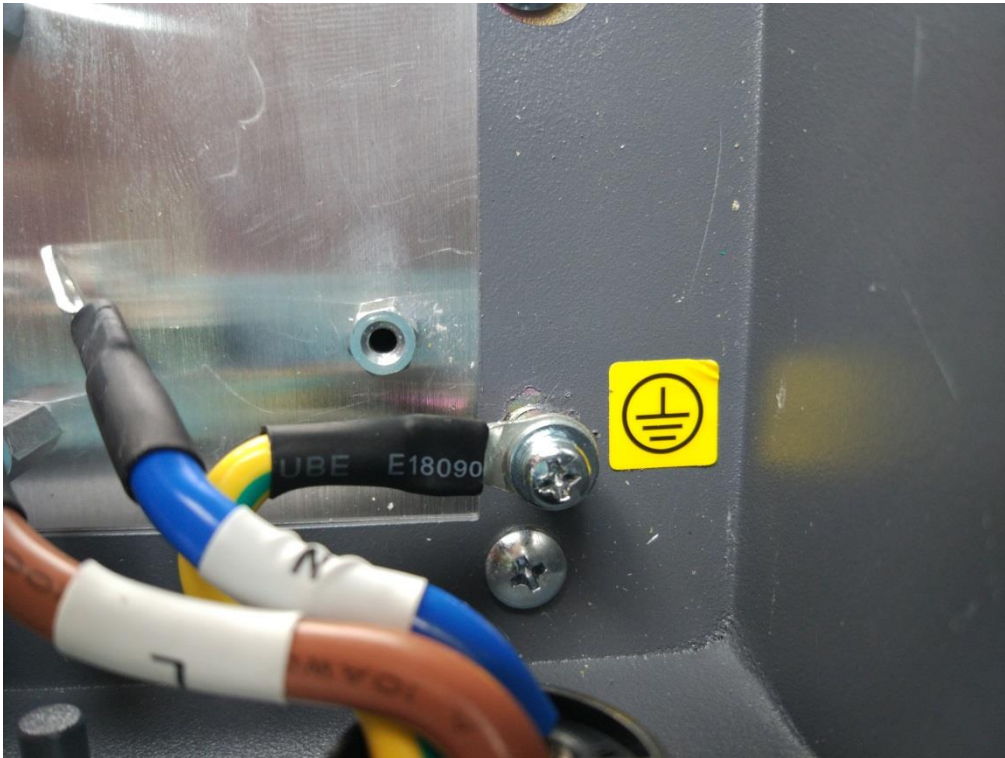
Back side of display board



Removed all PCBAs



Cover



Labels

EVVO Solar Grid-tied Inverter	
Model No:	EVVO 6000TLG2
Max. DC Input Voltage	600V
Operating MPPT Voltage Range	90~580V
Max. Input Current	2x11A
Max. PV Isc	2x13.2A
Nominal Grid Voltage	230V
Max. Output Current	27.3A
Nominal Grid Frequency	50/60Hz
Nominal Output Power	6000W
Max. Output Power	6000VA
Power Factor	1(adjustable+/-0.8)
Ingress Protection	IP65
Operating Temperature Range	-25°C~ +60°C
Protection Class	Class I
Inverter Topology	Non-Isolated
Factory - Shenzhen China	
Manufacturer : EVOLVE ENERGY GROUP CO., LIMITED	
Address :RM 702, 7/F FU FAI COMM CTR 27 HILLIER ST SHEUNG WAN, HK	
Global Head Quarters	
371 Sidco Industrial Estate	
Chennai 600098 India	
VDE0126-1-1,G99,EN50438,AS4777,IEC62116,IEC61727	

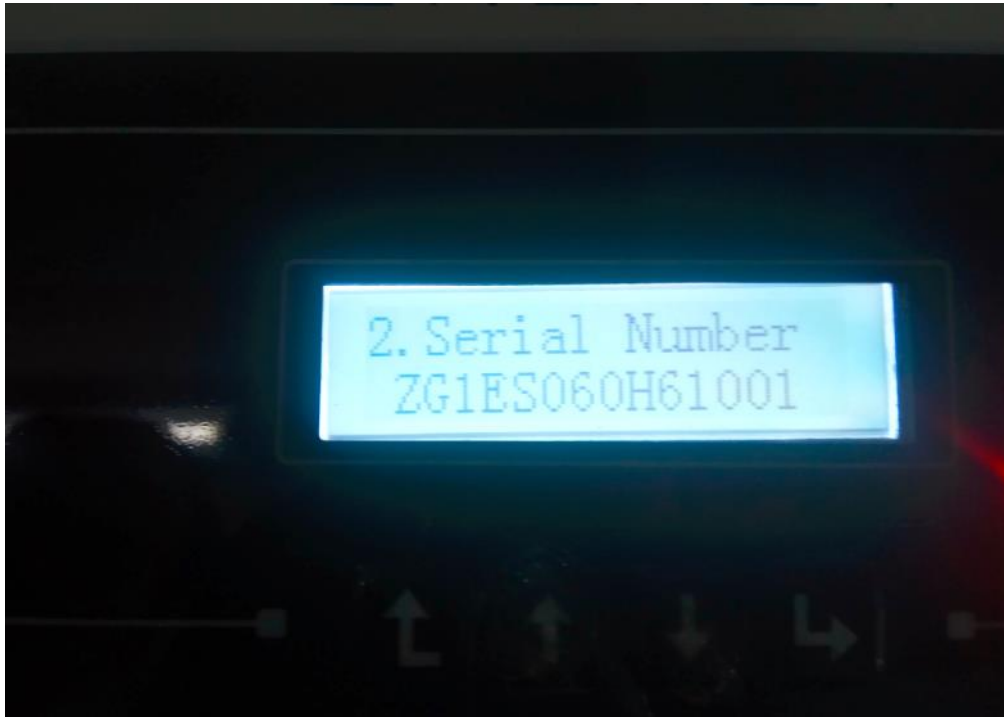
S

Software Version

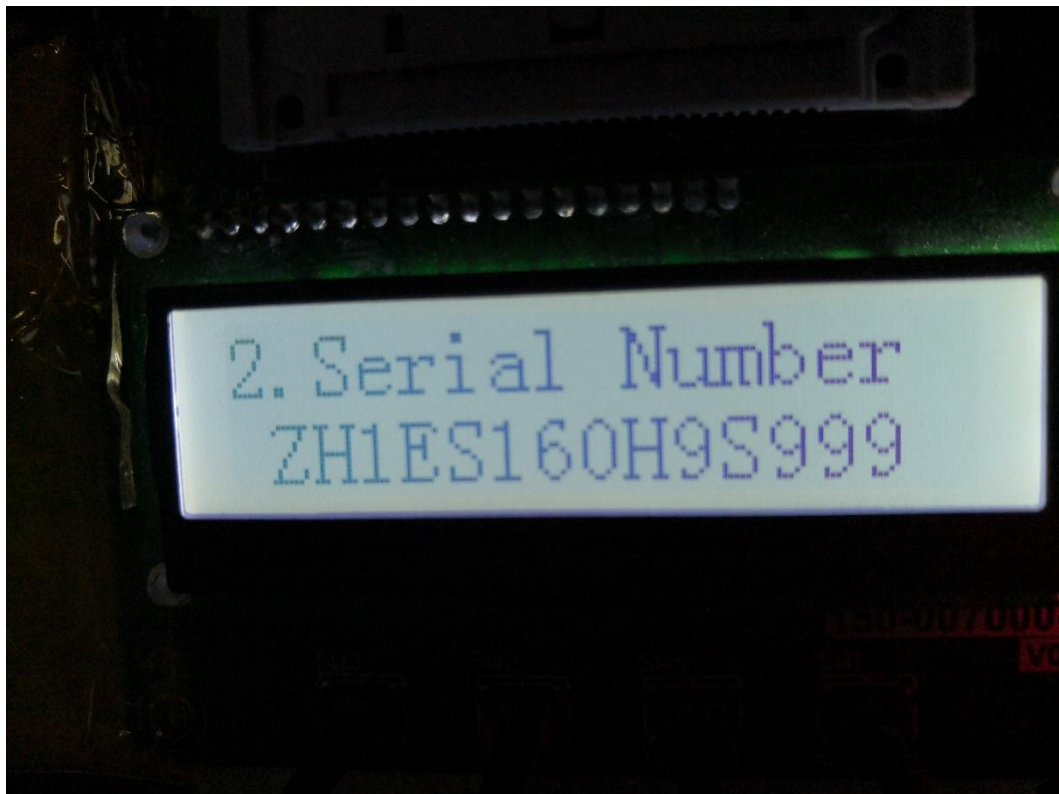


IEC 61683: 1999

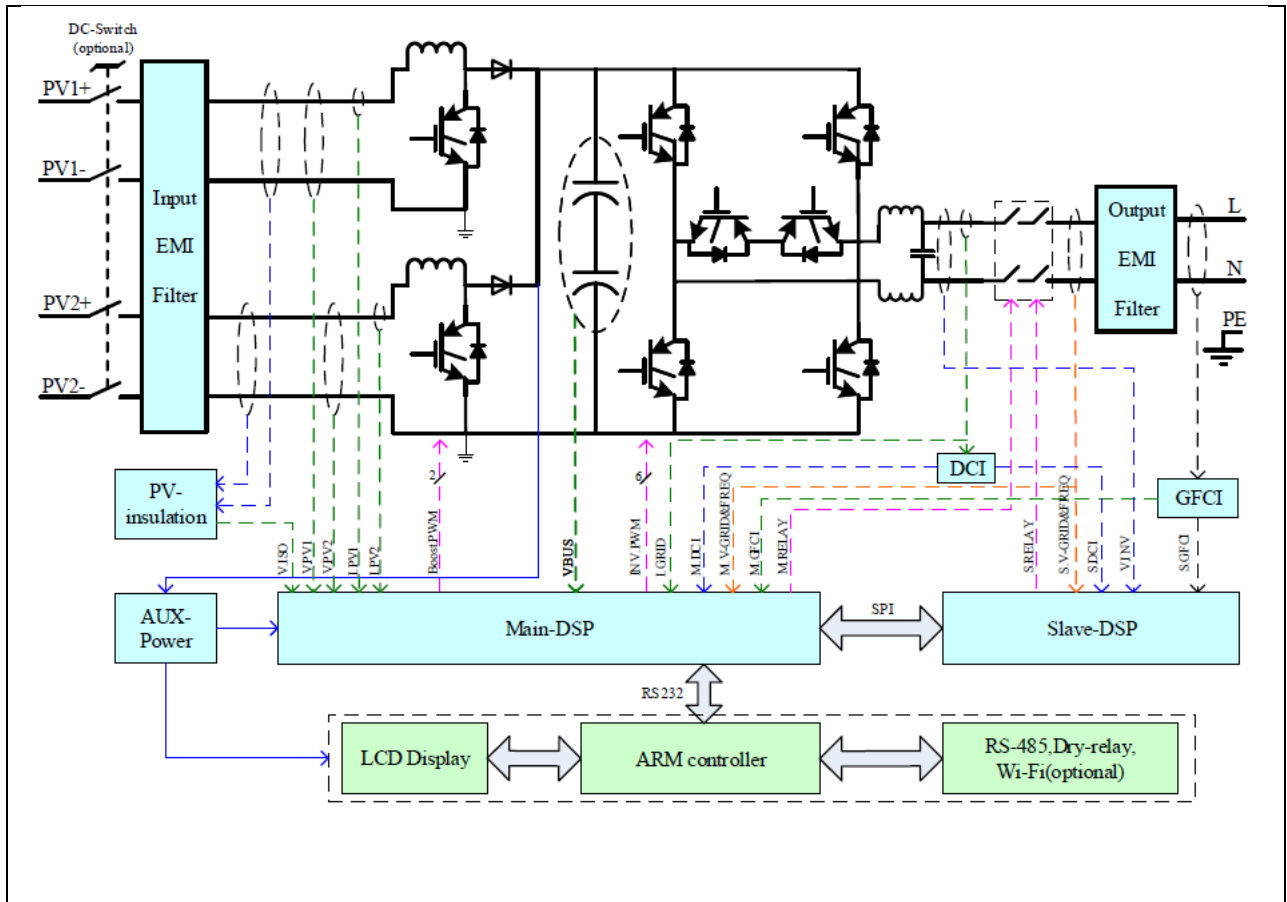
Serial Number of the EUT



Serial Number of the EUT for spot-check test



2 ELECTRICAL SCHEMES



ATTACHMENT II

(Testing information)

1 TESTING CIRCUIT

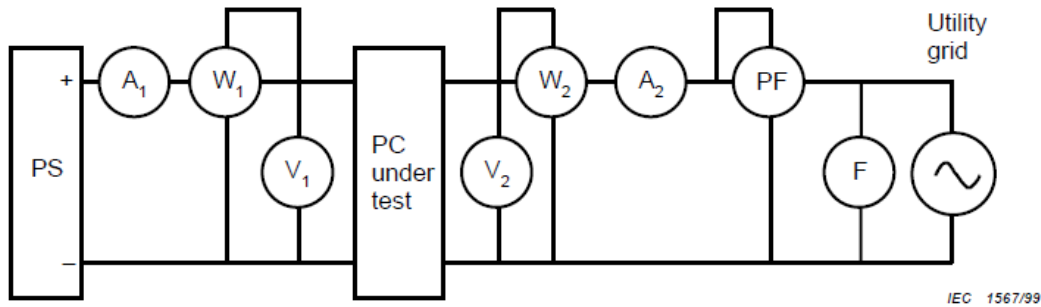


Figure 1b – Utility-interactive type

- | | |
|---|-------------------------------------|
| PC power conditioner | L load |
| PS variable voltage-current d.c. power supply | F frequency meter |
| A ₁ DC ammeter | V ₁ DC voltmeter |
| A ₂ AC or d.c. ammeter | V ₂ AC or d.c. voltmeter |
| W ₁ DC wattmeter | PF power factor meter |
| W ₂ AC or d.c. wattmeter | |

Current and voltage clamps have been connected to the inverter input/output for all the tests.
 All the tests and checks have been performed in accordance with the reference standard under testing.

2 TESTING EQUIPMENT

No.	Equipment Name	MARK/Model No.	Equipment No.	Equipment calibration due date
1	AC source	Chroma / 61860	--	--
2	PV array simulator	Chroma / 62150H-1000S	--	--
3	Current clamp	FLUKE / i1000s	30413441	2018-02-15
4	Differential probe	Sanhua / SI-9110	111134	2018-02-15
5	Temperature & Humidity meter	VICTOR / VC230A	WS01	2018-09-03
6	Power analyzer	YOKOGAWA / WT 3000	EP-011	2018-08-05
7	Digital oscilloscope	YOKOGAWA/DL 850	EP-001	2018-10-22

Equipment for spot-check test

From	No.	Equipment Name	MARK/Model No.	Equipment No.	Equipment calibration due date
Sofar Solar	1	AC source	Chroma / 61860	--	--
	2	PV array simulator	Chroma / 62150H-1000S	--	--
	3	Current clamp	FLUKE / i1000s	29503223	2020-02-12
	4	Differential probe	Sanhua / SI-9110	111541	2020-02-12
	5	Temperature & Humidity meter	Anymeters / TH101B	201030245220	2020-02-12
	6	Power analyzer	YOKOGAWA / WT 3000	91N610888	2020-02-12
	7	Digital oscilloscope	Agilent / DS05014A	MY50070266	2020-02-12
SGS	8	True RMS Multimeter	Fluke / 289C	GZE012-53	2020/01/24

Items	Specifications
1) PV array simulator	
a) Voltage range	0 – 1000Vdc (0.01V step)
b) Current range	0 – 40A (0.01A step)
2) AC power source	
a) Output wiring	Three phase
b) Output capacity	100KVA
c) Output voltage	10-300Vrms
d) Output frequency	45-65Hz
e) Voltage stability	± 100ppm/°C
f) Output voltage distortion	0.05% max.
3) Digital meter	
a) Voltage range	0 – 1000Vdc, 0 – 600Vrms
b) Current range	0 – 30A
c) Frequency range (accuracy)	0.2%
d) Measurement items	Voltage (V) Current (A) Active power (W) Reactive power (Var) Volt-ampere (VA) Power factor (PF) Frequency (Hz) Electric energy (Wh)
4) Waveform recorder	
a) Sampling speed	1M/s
b) Recording device	Memory record and USB reading
c) Time accuracy	± 500ppm
5) AC load	
a) Resistive load	Maximum voltage: 300Vrms Current range: 0 – 100A Capacity: 100KW
b) Inductive load	Maximum voltage: 300Vrms Current range: 0 – 100A Capacity: 100KVA
c) Capacitive load	Maximum voltage: 300Vrms Current range: 0 – 100A Capacity: 100KVA

3 MEASUREMENT UNCERTAINTY

Voltage measurement uncertainty	$\pm 0.05\%$
Current measurement uncertainty	$\pm 0.05\%$
Frequency measurement uncertainty	$\pm 0.001\text{ Hz}$
Time measurement uncertainty	$\pm 0.001\text{ s}$
Power measurement uncertainty	$\pm 0.5\%$
Phase Angle	$\pm 0.1^\circ$
Cos ϕ	$\pm 0.01\%$

Note1: Measurements uncertainties showed in this table are maximum allowable uncertainties. The measurement uncertainties associated with other parameters measured during the tests are in the laboratory at disposal of the solicitant.