Appendix B – Manufacturer's CLS Product Information

This form is available in a Microsoft Word version from the ENA's website.

G100/2 - Form B - Compliance Verification Report for Customer Export or Import Limitation Schemes

This form shall be used by the **Manufacturer** to demonstrate and declare compliance with the requirements of EREC G100. The form can be used in a variety of ways as detailed below:

1. For Fully Type Tested status

The **Manufacturer** can use this form to obtain **Fully Type Tested** status for a **CLS** by registering this completed form with the Energy Networks Association (ENA) Type Test Register.

2. To obtain Type Tested status for a product

The **Manufacturer** can use this form to obtain **Type Tested** status for one or more **Components** which are used in a **CLS** by registering this form with the relevant parts completed with the Energy Networks Association (ENA) Type Test Register.

3. One-off Installation

The **Installer** can use this form to confirm that the **CLS** has been tested to satisfy the requirements of this EREC G100. This form shall be submitted to the **DNO** before commissioning.

A combination of (2) and (3) can be used as required, together with Form C where compliance of the **CLS** is to be demonstrated on site.

Note:

If the **CLS** is **Fully Type Tested** and registered with the Energy Networks Association (ENA) Type Test Register, Form C shall include the **Manufacturer**'s reference number (the Type Test Register system reference), and this form does not need to be submitted.

Where the **CLS** is not registered with the ENA Type Test Register or is not **Fully Type Tested** this form (all or in parts as applicable) shall be completed and provided to the **DNO**, to confirm that the **CLS** has been tested to satisfy all or part of the requirements of this EREC G100.

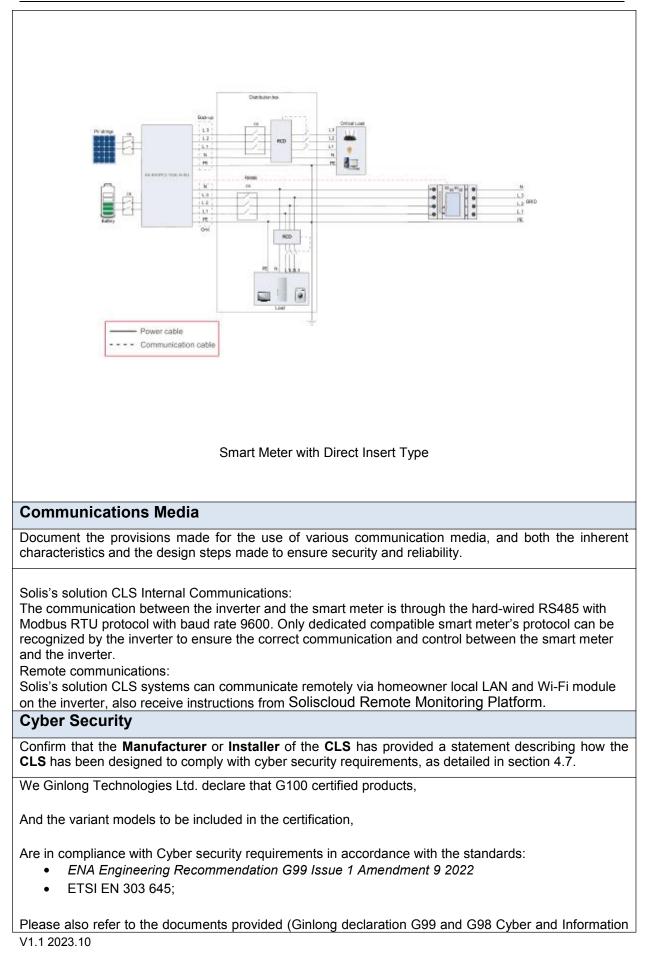
CLS Designation		Type Tested			
Manufacturer name		Ginlong technologies Co., Ltd.			
Address		No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan, Ningbo, zhejiang, 315712, P.R. China			
Tel	(+86)574 6578 1606	Web site	www.ginlong.com		
E:mail	Ruyi.pan@ginlong.com				
CLS information					
Inverter	S6-EH3P5K-H-EU, S6-EH3P6K-H-EU, S6-EH3P8K-H-EU, S6-EH3P10K-H-EU,				

	S6-EH3P5K2-H,S6-EH3P6K2-H,S6-EH3P8K2-H,S6-EH3P10K2-H,			
Merter	erter Eastron SDM630MCT			
General remarks:				
The results show that the CLS system supplied by solis meets the standard "ER G100/2-2: 2023". See				
below for details.				

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Test						
Export/Import capabilities						
Export	Y /- N	Import	¥/N			
Description of Operation						
EREC G100 section 4.2 requires a description of the CLS , and schematic diagram, to be provided to the Customer . Please provide that description and the diagram here.						
The system is composed with the inverter and the smart meter. The smart meter is installed at the grid connection point of the system and measuring the current/voltage/power data, etc. The data will be obtained by the inverter through the RS485 communication line between the inverter meter port and the smart meter. Inverter will dynamically control its generation power based on the metering data to guarantee the export current at the grid						
connection point into the distrib	ution network will r					
Press Pr	Definition tox	Difficient Land				
Note: If the CT is installed in the wrong o the Hybrid Inverter can't work non	nally.		CT direction towards to grid			
Smart Meter with External CT Type						

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Security Management)

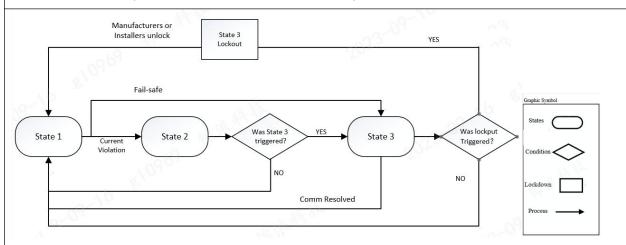
Power Quality Requirements

Where the **CLS** includes the power electronics that controls generation or loads (as opposed to the power electronics being included in **Devices** that are subject to their own power quality compliance requirements) please submit the harmonic and disturbance information here as required by EREC G5 and EREC P28.

Refer to the inverter's G98 or G99 report

Fail Safe

CLS internal failure: please submit here the description of the internal **Fail Safe** design and operation. Please also document how it has been demonstrated, including the non-volatile recording of times and numbers of state 2 operations, and confirm the overall response of the **CLS** to this internal failure.



Ginlong G100 CLS was designed with a fail safe mechanism according to G100 Issue 2 2023, ensuring that in the event of communication failure or loss of source in any component, reducing the component generation to zero.

If the fault causes the current to temporarily exceed MEL, the system will enter state 2 operation, and t he time and numbers of state 2 will be recorded in the ROM of the inverter. Even if the power is cut off or removed, the ROM will still be saved in the MCU, waiting for the inverter to restart and re read the st ate from the ROM.

All components of the system are hardwired and will monitor in real-time whether the system is functioning properly. If a fault is detected, the system will immediately reduce the output power to zero for protection.

Communication and power supply failures between **Components** and **Devices**. Please document here compliance with EREC G100 section 5.5.

Component/Device number/description	Communication failure test	Power supply failure test	
Main Meter	Trips Inverter internal relay in<	Trips Inverter internal relay in< 5s	
Inverter	Trips Inverter internal relay in < 5s	Trips Inverter internal relay in < 5s	
СТ	Trips Inverter internal relay in< 5s	Trips Inverter internal relay in < 5s	

Opera	ational Tests	i				
	and state 2, tha		n 5.6 undertake tate 3 occurs as			
Test A						
	al Export Limit ediate setting) in		this will be at	maximum, min	imum and one	
	al Import Limit ediate setting) in		this will be at	maximum, min	imum and one	NA
No	Starting level	Step value	CLS registers change in level?	CLS and/or Component and/or Device initiates correct response of ≥ 5%?	Duration of step in test	Correct state 1/ state 2 operation
1	Below export limit (EL)	105% of EL	Yes	Yes	58s	State 1>State 2>State 1
2	Below export limit (EL)	110% of	Yes	Yes	58s	State 1>State 2>State 1
3	Below export	120% of EL	Yes	Yes	58s	State 1>State 2>State 1
4						
5						
6						
Test B						
Nomin	al Export Limit:					
	al Import Limit					
No	Starting level	Step value	CLS registers change in level?	CLS and/or Component and/or Device initiates correct response of ≥ 5%?	Duration of step in test	Correct state 3 operation
7	Below export	105% of	Yes	Yes	62s	State 1>State 2>State 3
	limit (EL)	EL				
8						

State 3 Reset

These tests are to demonstrate compliance with section EREC G100 4.5.2.

Please document how the reset from state 3 to state 1 has been demonstrated. Please include how the reset is achieved.

Please confirm that for **CLSs** to be installed in **Domestic installations** three (3) resets causes lockout or that for non-domestic installations lockout can only be reset after four hours. Please explain how lockout is reset.

- 1. After three resets in one month, CLS state change to "State 3 Lock-Out" in Domestic installations.
- 2. Expert investigation has ended successfully.
- 3. CLS changes system state to "State 1" (normal operation) and sends commands to Generation devices.
- 4. CLS Clears all G100 related events from its memory due to investigations.
- 5. Devices receive the command and enter their Normal Operational Mode.
- 6. CLS logs the state change.
- 7. CLS sends generated event to "Solis Cloud".
- 8. CLS sends and alert to a User Interface that the system is in "State 1 Normal Operation".