

**Manufacturer's declaration in accordance with the requirements of**

**G98-Amd. 6(2021-09) standard Sec.s 9.7.1, 9.7.2, and**

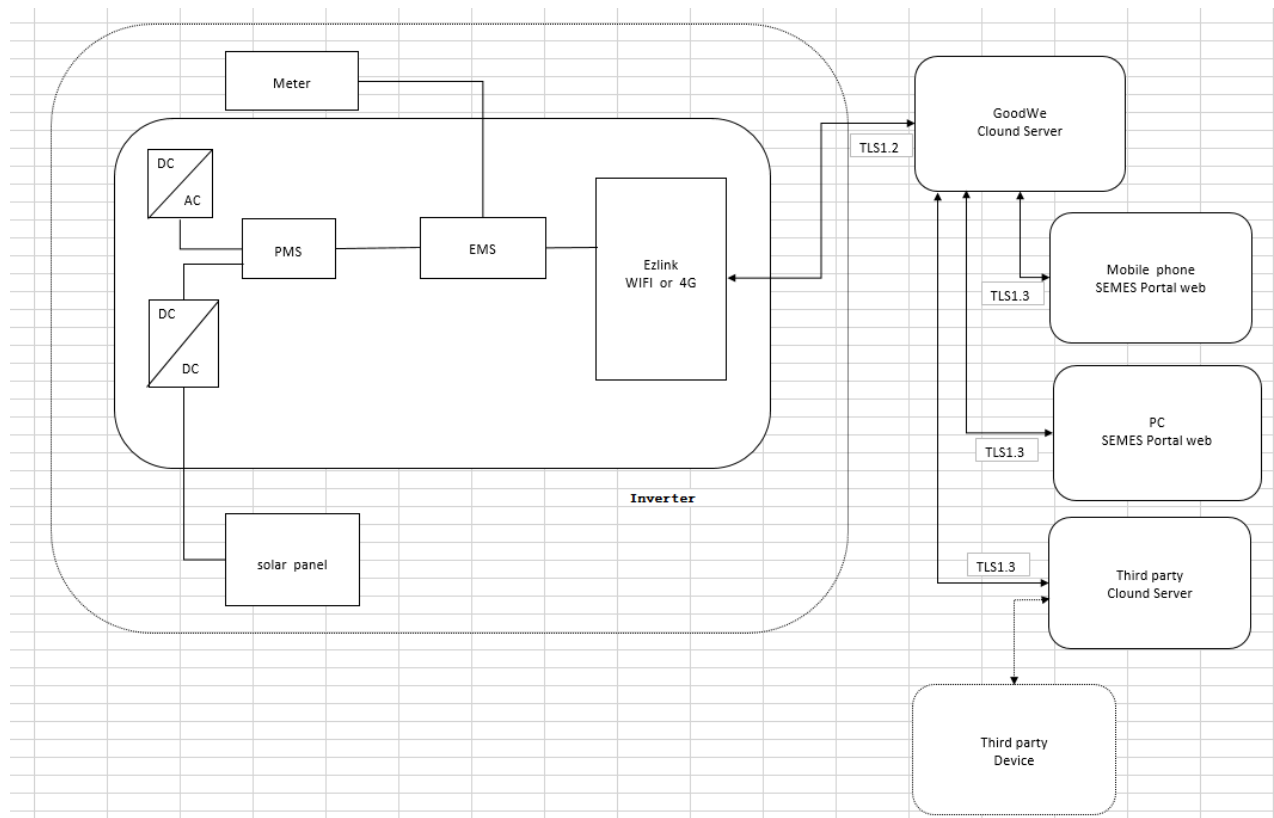
**G99-Amd. 8(2021-09) standard Sec.s 9.1.7, 9.1.8 regarding "Cyber Security"**

We **Viridian Solar Limited** declare under our sole responsibility that the products referred to below,

Clearline Inverters CSI1000, CSI1500, CSI2000, CSI2500, CSI3000

**in the name of the Company declares the following:**

- 1) The hybrid inverters include a system of internal and external logic communications as summarized in the following scheme:



where the main components involved, and their main functions are explained in the following table:

<i>acronym/ name</i>	<i>meaning</i>	<i>function</i>	<i>location</i>
PMS	Power Management System	monitoring and management of power fluxes, which come from DC and AC, execution of EMS's commands	Inverter control module
EMS	Energy Management System	monitoring of all field's measures, calculus of power and currents for every component of the system, reception of external commands, transmission of commands to PMS	EMS control module
Ezlink	Gate-Way	transmission of data to cloud server, reception of commands/settings from user	Communication module
Meter	Meter	electrical parameters measures, such as voltage, current, power and energy	at AC port of grid

- 2) Communications between internal components of the inverter, such as EMS and PMS, meter or Ezlink, take place via appropriate serial lines (RS485, CanBus etc.) and are not directly connected to any device or system outside the inverter.
- 3) The only communication port between the inverter and the outside is constituted by Ezlink on the machine; the communication between inverter and the outside world can take place via an Ethernet line, WiFi or 4Grouter according to the customer's request.
- 4) The direct recipients/senders of communications with the inverter is the GoodWe Cloud Server – in which case the communication is made secure by the use of TLS1.2 technology; Third party cloud can communicate with inverter indirectly by calling API provided by GoodWe Cloud Server ,using TLS1.3 technology.
- 5) All communications between the GoodWe cloud server and the subjects/parties are cyber-protected by TLS1.3 technology.

23<sup>rd</sup> April 2023



Dr KT Tan  
Chief Technical Officer  
**Viridian Solar Limited**