

## SELF DECLARATION OF CONFORMITY OF CYBER SECURITY

The manufacture certifies that the following designated product:

**AC/DC Inverter**

**PWS1-500KTL-EX-1M1,PWS1-500KTL-EX-2M1,PWS1-500KTL-EX-3M1,PWS1-500KTL-EX-4M1,  
PWS1-500KTL-EX-5M1,PWS1-500KTL-EX-6M1,PWS1-500KTL-EX-7M1,PWS1-500KTL-EX-8M1,  
PWS1-500KTL-EX-1M8,PWS1-500KTL-EX-2M8,PWS1-500KTL-EX-3M8,PWS1-500KTL-EX-4M8,  
PWS1-500KTL-EX-5M8,PWS1-500KTL-EX-6M8,PWS1-500KTL-EX-7M8,PWS1-500KTL-EX-8M8,  
PWS1-500KTL-EX-2M4,PWS1-500KTL-EX-4M4,PWS1-500KTL-EX-6M4,PWS1-500KTL-EX-8M4,**

is designed and operated appropriately to comply with cyber security requirements of G99 by considering managing security risk, minimizing the impact of security incidents, protecting against cyber-attack, detecting cyber-security events and the safe communication between any energy management system etc and also in terms of interaction with any other systems of the Distribution Energy Resource appliances.

Details are as follows:

The PCS supports Modbus protocol, adopts RS485 and Ethernet communication interface and facilitates users to conduct background monitoring for the PCS and realizes remote signaling, remote metering, remote control and remote regulating of storage inverter.

1.EMS Port: The physical layer uses the RS485 or Ethernet communication interface to receive EMS commands for remote control.Dedicated Protocol Provided by Sinexcel is based on MODBUS RTU for RS485 and MODBUS TCP for Ethernet. Execution process safe.

2.BMS Port: The physical layer uses the RS485 or CAN communication interface to manage and control the connected battery system.Dedicated Protocol Provided by Sinexcel is based on MODBUS RTU,The CAN message format follows the CAN2.0B specification .

Sinexcel inverter uses the preceding method for external interaction to ensure cyber-security of the system.

The designated product was subject to sample testing for which TUV-SUD issued test report number:TRPVP08005/22E/05

Issue by :

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