

# COMPLIANCE ATTESTATION



Reference No. : LCSA01155032S

Applicant : Karstcom Hong Kong Co., Ltd.

Address : FLAT/RM 1108, 11/F, NO. 655 NATHAN ROAD, KOWLOON, HONG KONG

Product : Micro Inverter

Trade Mark : N/A

Model(s) : KSMI-500, KSMI-400, KSMI-800, KSMI-1000, KSMI-1600, KSMI-2000

Parameters : See the Annex

Tested according to : EN 50549-1: 2019+A1:2023; NF EN 50549-1: 2019+A1:2023; EN 50549-10: 2022; NF EN 50549-10: 2022; PD C11-519-11: 2023

The submitted products have been tested by us with the listed standards.

**EN 50549-1: Requirements for power plants connected in parallel with the distribution network: Part 1: Connection to LV distribution network - Power plants including type B**

**NF EN 50549-1: Requirements for power plants connected in parallel with the distribution network: Part 1: Connection to LV distribution network - Power plants including type B**

**EN 50549-10: Requirements for generating plants to be connected in parallel with distribution networks  
Part 10: Tests for conformity assessment of generating units**

**NF EN 50549-10: Requirements for generating plants to be connected in parallel with distribution networks  
Part 10: Tests for conformity assessment of generating units**

**PD C11-519-11: Prescriptions pour le raccordement de générateurs en parallèle avec le réseau de distribution - Paramètres pour la connexion au réseau de distribution BT**

This Compliance Attestation refers to above mentioned product comply with the above-mentioned standards.

According to Annex H of the standard NF EN 50549-1:2019, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631 (relevant France regulation Arrêté du 9 juin 2020 relatif aux prescriptions techniques de conception et de fonctionnement pour le raccordement aux réseaux d'électricité), provided, that all settings as provided by the DSO and the responsible party are complied with. Additional information in Appendix.





This compliance attestation confirms the compliance with the listed standard on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products.

At the time of issue of this attestation, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

**Date of issue: January 21, 2025**

  
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Manager





## Annex of the attestation:

This is an Appendix to Certificate of Conformity Number: LCSEA01155032S						
Model	KSMI-500	KSMI-400	KSMI-800	KSMI-1000	KSMI-1600	KSMI-2000
Input data(DC)						
Input DC voltage range [V]	22-60	22-60	22-60	22-60	22-60	22-60
Input DC current [A]	18	15	30	36	60	72
Output AC voltage [V]	230	230	230	230	230	230
Output AC current [A]	2.2	1.75	3.5	4.4	7	8.8
Output power [VA]	500	400	800	1000	1600	2000

National DSO setting of PD C11-519-11		
Clause(s)/subclause(s) of this EN	Parameters	DSO Requirement
4.9.2 Requirements on voltage and frequency protection (Krav til spennings- og frekvensbeskyttelse)	Threshold for protection as dedicated device [ in A or kW, kVA]	250 KVA
	Undervoltage threshold stage 1	0.8 Un
	Undervoltage operate time stage 1	0.1 s
	Undervoltage threshold stage 2	No required
	Undervoltage operate time stage 2	No required
	Overvoltage threshold stage 1	1.15 Un
	Overvoltage operate time stage 1	0.1 s
	Overvoltage threshold stage 2	No required
	Overvoltage operate time stage 2	No required
	Overvoltage threshold 10 min mean protection	1.10 Un
	Underfrequency threshold stage 1	47.5 Hz
	Underfrequency operate time stage 1	0.1 s
	Underfrequency threshold stage 2	No required
	Underfrequency operate time stage 2	No required
4.10.2 Automatic reconnection after tripping (Automatisk gjeninnkobling etter tripp/utkobling)	Lower frequency	47.5 Hz
	Upper frequency	50.1 Hz





	Lower voltage	85% Un
	Upper voltage	110% Un
	Observation time	60 s
	Active power increase gradient	10 %/min, no required

