

# Compliance Document

No. D 105515 0095 Rev. 00

**Holder of Certificate:** **Suzhou Hypontech Co., Ltd.**

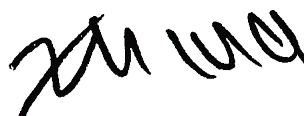
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**Product:** **PV inverter**  
**Micro inverter**

This Compliance document confirms the compliance with the listed standards 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. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704092222038 -00

**Date,** 2023-05-09



( Zhengdong Ma )



Product Service

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Model(s): HMS-600W, HMS-600W-C, HMS-800W, HMS-800W-C

## Parameters:

Models	HMS-800W	HMS-800W-C	HMS-600W	HMS-600W-C
PV Input Parameters				
Max. input voltage	DC 60 V			
MPP voltage range	DC 25V, ..., 55 V			
Max. input current	DC 15/15 A			
Isc PV(absolute maximum)	DC 20/20 A			
AC Output Parameters				
Rated AC output active power	800 W		600 W	
Max. AC output apparent power	800 VA		600 VA	
Rated grid voltage	1/N/PE AC 230 V			
Rated grid frequency	50/60 Hz			
Max. continuous output current	AC 3.6 A		AC 2.7 A	

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Default protection settings

Parameters	Normative requirements		Internal threshold setting	
	Maximum clearance time	Trip limit	Maximum clearance time (factory setting)	Factory setting trip value (Default)
Over voltage – state 1: 10 minutes mean value corresponding to EN 50160 and DIN VDE 0126-1-1:2013 (VDE V 0126-1-1:2013)	200ms	1.1Un...1.15Un	600s+3s (moving average voltage)	1.1Un
Over voltage – stage 2	200ms	1.15Un	190ms	1.15Un
Under voltage	200ms	0.8Un	190ms	0.8Un
Over frequency	200ms	51.5Hz	190ms	51.5Hz
Under frequency	200ms	47.5Hz	190ms	47.5Hz
Reconnection voltage range after a network outage and response to abnormal conditions	-	85 % Un ... 110 % Un	-	85 % Un ... 110 % Un
Reconnection frequency range after a network outage and response to abnormal conditions	-	47.5 Hz to 50.05 Hz	-	47.5 Hz to 50.05 Hz
Automatic reconnection after a network outage and response to abnormal conditions	≥60s	-	60s	-
DC injection current	200 ms	1A	70ms	1A
PV array Insulation resistance measurement before starting operation	-	-	-	-
Islanding detection	Max. 5s	Loss of mains	Max. 5s	Loss of mains
Continuous residual current	-	-	-	-
Sudden changes in residual current	-	-	-	-
	-	-	-	-
	-	-	-	-
Displacement factor	0.944 (According to Enedis-FOR-CF_15E:2023, version 13)		0.944	

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The tolerance between setting value and trip value of the voltage shall be at maximum  $\pm 1\%$  and the admissible tolerance for the frequency at maximum  $\pm 0.1\%$ .

b) The following deviations have been applied according to SEI REF 04:2007/V7:2018 for PV plant capacity less than 250kVA and LV connection (PROTECTION DE DECOUPLAGE POUR LE RACCORDEMENT D'UNE PRODUCTION DECENTRALISEE EN HTA ET EN BT DANS LES ZONES NON INTERCONNECTEES. Référentiel Technique)

Parameters	Tripping setting	Max. clearance time setting
Over voltage	1.11 Vn	140ms
Under voltage	0.85 Vn	140ms
Over frequency	52.0Hz	140ms
Under frequency	46.0Hz	140ms

c) The following deviations have been applied according to "Contrat de raccordement, d'accès et d'exploitation (CRAE) pour une installation de production photovoltaïque raccordée au Réseau Public d'électricité" and EDT:2011/V1:2011.

Parameters	Tripping setting	Max. clearance time setting
Over voltage	1.15 Vn	140ms
Under voltage	0.85 Vn	140ms
Over frequency	62.5Hz	140ms
Under frequency	55.0Hz	140ms

Alteration of the above settings or full setting range of the interface protection may cause a breach of the type-certificate marking.

Unauthorised access to factory safety parameters setting and software should be prohibited.

A reset to the factory safety parameters requires retesting and verification in conjunction with the end-use system.

**Tested  
according to:**

UTE C15-712-1:2013  
DIN VDE 0126-1-1:2013 (with national deviation of France: DIN  
VDE 0126-1-1 VFR 2019)