

Manufacturer's Declaration for Type A Power Park Modules equipped with PV converters

Compliance monitoring for equipment certification as a part of A and B type of power generating modules compliance with EU Regulation 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators, (NC RfG) regarding to:

"Om fastställande av nätföreskrifter med krav för nätanslutning av generatorer", samt den svenska föreskriften EIFS 2018:2 "

For the following				
Equipment/Series:	; Huawei FusionSolar SUN2000 Inverter			
	: Huawei FusionHome SUN2000 Inverter			
Models:	SUN2000-12KTL-M0/M2 Huawei	SUN2000L-2KTL/Huawei		
	: SUN2000-15KTL-M0/M2 Huawei	: SUN2000L-3KTL /Huawei		
	: SUN2000-17KTL-M0/ M2 Huawei	SUN2000L-3.68KTL /Huawei		
	: SUN2000-20KTL-M0/ M2 Huawei	SUN2000L-4KTL/Huawei		
	SUN2000-33KTL-A /Huawei	: SUN2000L-4.6KTL /Huawei		
	: SUN2000-36KTL/Huawei	SUN2000L-5KTL /Huawei		
	SUN2000-50KTL-M0 /Huawei	: SUN2000-3KTL-M0/M1 /Huawei		
	: SUN2000-60KTL-M0 /Huawei	: SUN2000-4KTL- M0/M1 /Huawei		
		: SUN2000-5KTL- M0/M1 /Huawei		
		; SUN2000-6KTL- M0/M1 /Huawei		
		: SUN2000-8KTL- M0/M1 /Huawei		
		: SUN2000-10KTL- M0/M1 /Huawei		
Manufacturer's Name	: Huawei Technologies Co., Ltd.			
Manufacturer's Address	: Administration Building, Headquarters of Huawei Technologies Co., Ltc			
	Longgang District, Shenzhen, 518129, P.R.C.			

Statement Content:

According to "Requirements of general application" established by local TSO and procedures for use relevant equipment certificates (NC RfG, Article 41, letter a,f,g) established by relevant system operator. Huawei SUN2000 Inverter as a Power Park Modules (PPM) component comply with listed in Table 1 requirements for type A power generation modules.



Listed features are supported by default or will require manual adjustment based on user manual during first commissioning. All settings are password protected and consecutive changes will be logged by the device.

For grid code 50438-SE					
Parameter		nce time	Trip setting		
Over voltage (OVP stage 2)	0,2 s		230 V +15%		
Over voltage (OVP stage 1)	60 s		230 V +11%		
Under voltage (UVP stage 1)	0,2 s		230 V -15%		
Over frequency (OFP)	0,5 s		51,0 Hz		
Under frequency (UFP)	0,5 s		47,0 Hz		
Land (Laga of Mains)	Based	on IEC62116,	Based on IEC62116,		
LoM (Loss of Mains)	proven by EN 50438 ⁷		proven by EN 50438 ¹		
Requirement:	Support	Co	omment		
Flickering and voltage fluctuations	Yes	According to 61000-3-3 / 11 proven by EN50438 ¹ test report and CE ² declaration			
Continuous frequency operation range	Yes	47-51 Hz without limitation; Can be adjusted by OFP/UFP change; Proven by EN 50438 ⁷ - 4.2.3			
LFSM-O (power derating frequency response to over-frequency)	Yes	Default: f _{start} = 50,2 Hz, droop = 5% Can be adjusted: f _{start} = 50,5 Hz, droop = 8% proven by EN50438 ¹ test report			
Response to under-frequencies: Less than 3%/Hz reduction <49Hz	Yes	No power reduction proven by EN50438 ¹ test report			
Automatic reconnection frequency range: $47,5-50,1$ Hz, observation time T_0 = 180 s	Yes	Default f range: 47,5 Hz-50,05 Hz / T_0 = 60 s Can be adjusted: 47,5 – 50,1 Hz / T_0 = 180 s proven by EN50438 ¹ test report			

¹Appendix: EN50438 Certificate, ²Appendix: CE declaration

Table 1

Yes

On behalf of Huawei Technologies

Output power increase gradient:

10% of Pm per minute

Yours Faithfully,

Signed:

26.07.2019

Default: $\Delta P = 10\%/min$

proven by EN504381 test report

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Director of Inverter Solution Sales & Marketing, Europe

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