

## Declaration of Czech according to EN 50549-1

<b>Model</b>	GW5K-ET,GW5KN-ET, GW6.5K-ET, GW6.5KN-ET, GW8K-ET ,GW8KN-ET, GW10K-ET ,GW10KN-ET	
<b>Type</b>	Hybrid inverter	
<b>Manufacturer</b>	GoodWe Technologies Co., Ltd.	
<b>Address</b>	No.90 Zijin Rd., New District, Suzhou, 215011, P.R. China	
<b>Tel</b>	+86 512 6239 7998	
<b>E-mail address</b>	service@goodwe.com	
<b>Reference standard</b>	PPDS 2022 LV typeA2	
<b>Czech Republic settings as described in the table below:</b>		
<b>Protection settings</b>	<b>Protection parameter</b>	<b>Unit</b>
Gird Setting	Un, 50Hz	phase
<b>Voltage protection</b>		
Under voltage threshold stage 1	0.7Un	V
Under voltage operate time stage 1	2.6	s
Under voltage threshold stage 2	0.45Un	V
Under voltage operate time stage 2	1.5	s
Over voltage threshold stage 1	1.2Un	V
Over voltage operate time stage 1	4.9	s
Over voltage threshold stage 2	1.25Un	V

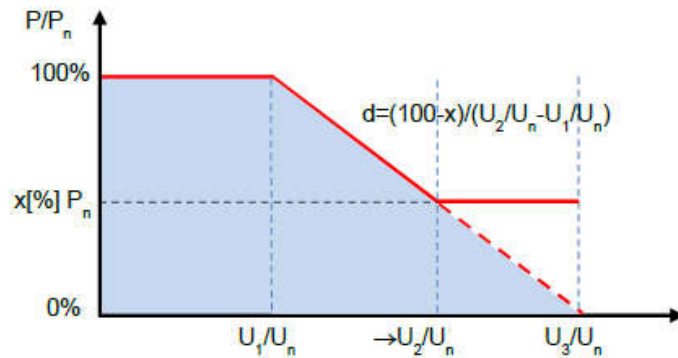
Over voltage operate time stage 2	0.06	s	
Over voltage 10min mean threshold	1.1Un	V	
<b>Frequency protection</b>			
Under frequency threshold	47.5	Hz	
Under frequency operate time	0.08	s	
Over frequency threshold	51.5	Hz	
Over frequency operate time	0.08	s	
<b>Reconnection</b>			
Lower frequency	47.5	Hz	
Upper frequency	50.05	Hz	
Lower voltage	0.85Un	V	
Upper voltage	1.1Un	V	
Observation time	$\geq 300$	s	
Active power increase gradient	$\leq 10\%$	Pn/min	
<b>Startup</b>			
Lower frequency threshold	49.5	Hz	
Upper frequency threshold	50.5	Hz	
Lower voltage threshold	0.9Un	V	
Upper voltage threshold	1.1Un	V	
<b>Island protection</b>			
	$\leq 2$	s	
<b>LVRT Voltage-Time-Diagram</b>	Time [s]	U [p.u.]	/
	0.0	0.05	/

	0.15	0.05	/
	3	0.85	/

**Curve setting**

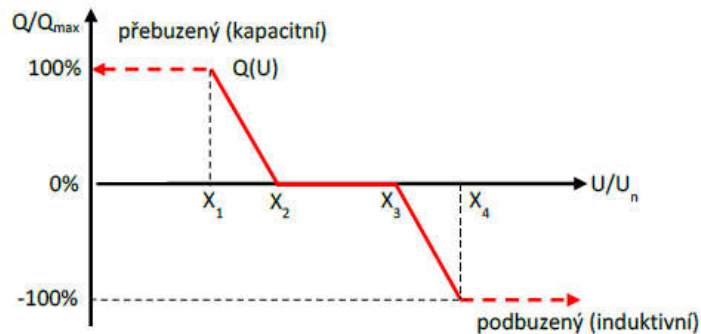
Function P(U) and Q(U) according PPDS 2022 pr.c.4, section 9.3.5 and 9.4.2 .The default values are as written below.

P(U)



$U_1/U_n = 109\%$ ;  $U_2/U_n = 110\%$ ;  $U_3/U_n = 111\%$ ;

Q(U)



$X_1 = 0.94$ ;  $X_2 = 0.97$ ;  $X_3 = 1.05$ ;  $X_4 = 1.08$

The inverters are able to follow the above-mentioned required functions, and other default parameters are according to EN50549-1.

This declaration applies to all products from listed product series.

This declaration loses its validity if the device is modified or incorrectly connected.

This declaration certifies the compliance with the mentioned regulations but does not ensure the properties. The safety instructions in the product documentation provided must be observed!

<b>Signed</b>	<i>Jiang Liao</i>	<b>Data</b>	2023/10/16
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