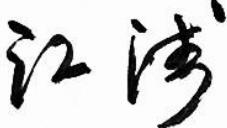


Declaration of Conformity to EN 50549-1:2019 With Irish Deviations According to EN50438

Micro-generator details

MICRO-GENERATOR Type reference	GW5K-BT GW5K-ET	GW6K-BT	GW6.5K-ET	GW8K-BT GW8K-ET	GW10K-BT GW10K-ET
Maximum continuous rating	5000W	6000W	6500W	8000W	10000W
Manufacturer	JIANGSU GOODWE POWER SUPPLY TECHNOLOGY CO.,LTD.				
Address	No.90 Zijin Rd., New District, Suzhou, 215011, China				
Tel	+86 512 6239 7998				
E-mail address	service@goodwe.com				
Reference standard No.	BS EN 50438:2013,EN 50549-1:2019				
Date	09/23/2020				
SIGNATURE					

Power quality

Harmonic current emission											
	Maximum permissible harmonic current as per EN 61000-3-2,Class A										
	Odd harmonics							Even harmonics			
HarmonicOrder n	3	5	7	9	11	13	15≤n≤39	2	4	6	8≤n≤40
Limit	2.30	1.14	0.77	0.4	0.33	0.21	0.15(15/n)	1.08	0.43	0.3	0.23(8/n)
Test value	0.055	0.101	0.080	0.012	0.072	0.065	0.008	0.132	0.059	0.019	0.037

Voltage fluctuations and flicker					
	Maximum permissible flicker and voltage fluctuation as per En 61000-3-3				
Value	P_{st}	P_{lt}	$d(t) - 500ms$	d_c	d_{max}
Limit	1.0	0.65	3.3%	3.3%	4%
Test value	0.20	0.20	0	0.09%	0.65%

Over-/under-frequency tests

		Over-frequency		Under-frequency	
Parameter		Frequency	Disconnection time	Frequency	Disconnection time
Protection limit (FROM Table 4 or Annex A)		50.5Hz	0.5s	48Hz	0.5s
Actual setting (as applied to interface protection)		50.5Hz	0.44s	48Hz	0.44s
Trip value(test result)		50.6Hz	0.311s	48Hz	0.324s

Over-/under-voltage tests (single stage protection)

		Over-voltage		Under-voltage	
Parameter		Voltage	Disconnection time	Voltage	Disconnection time
Protection limit (from Table 4 or Annex A)		253V	0.5s	207V	0.5s
Actual setting (as applied to interface protection)		253V	0.44s	207V	0.44s
Trip value(test result)		254V	0.351s	206V	0.355s

Short-circuit current parameters

Parameter	Symbol	Time after fault	Volts	Amps
Peak short-circuit current	/	20ms	10.79V	0A
Initial value of aperiodic component	/	100ms	- 13.31V	0A
Initial symmetrical short-circuit current	/	250ms	- 13.31V	- 334.7mA
Decaying (aperiodic) component of short-circuit current	/	500ms	- 13.31V	- 669.5mA
Reactance/Resistance ratio of source	/	Time to trip	9.4MS	