

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

Micro-generator details

MICRO-GENERATOR Type reference	GW25K-MT	GW30K-MT	GW36K-MT
Maximum continuous rating	25000W	30000W	36000W
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			
Harmonic Order 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	0.332	0.185	0.257	0.209	0.192	0.193	0.012	0.465	0.228	0.202	0.174

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	0.23	0	0	0	0.63%

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	0.350s	48Hz	0.345s

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	0.316s	206V	0.335s

Short-circuit current parameters

Parameter	Symbol	Time after fault	Volts	Amps
Peak short-circuit current	/	20ms	27.7V	13.8A
Initial value of aperiodic component	/	100ms	N/A	N/A
Initial symmetrical short-circuit current	/	250ms	N/A	N/A
Decaying (aperiodic) component of short-circuit current	/	500ms	N/A	N/A
Reactance/Resistance ratio of source	/	Time to trip	8ms	