

DECLARATION OF EN 50549-1: 2019 FOR IRELAND

APPENDIX B: Type Certification Test Result Sheet

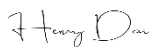
Micro-generator details

MICRO-GENERATOR Type reference: MI-300		
Maximum continuous rating: 300W		
Manufacturer: Hoymiles Power Electronics Inc.	Tel: +86 571 28056101 Fax: +86 571 28056137	Address: No.18 Kangjing Road, Hangzhou, Zhejiang Province, China
Technical file reference No.		

Test house details

Name and address of test house or laboratory	Hoymiles Power Electronics Inc. No.18 Kangjing Road, Hangzhou, Zhejiang Province, China
Telephone number	+86 571 28056101
Facsimile number	+86 571 28056137
E-mail address	tihu.dai@hoymiles.com

Test details

Data of test	2021-07-22
Name of test Engineer	Dai, Ti Hu
Signature of test Engineer	
Test location if different from above	

POWER QUALITY

Harmonic current emissions (A)								
Maximum permissible harmonic current as per EN 61000-3-2 Class A								
Harmonic	2 nd	3 rd	5 th	7 th	9 th	11 th	13 th	15 th -39 th
Limit	0,013	0,052	0,052	0,052	0,052	0,026	0,026	0,026x(15/n)
Test value	0,002	0,017	0,013	0,011	0,005	0,007	0,003	0.001*

*15th value

Voltage Fluctuations and Flicker				
Maximum permissible voltage fluctuation (expressed as a percentage of nominal voltage at 100% power) and flicker as per EN 61000-3-3				
	Starting	Stopping	Running	
Limit	3,3%	3,3%	Pst=1,0	Plt=0,65
Test value	0,1%	0,1%	0,06	0,06

	DC injection			Power factor		
Protection Limit	20mA, tested at three power levels*			>0,99 at three voltage levels		
	5%	50%	100%	210V	230V	250V
Test value	1,94mA	1,53mA	1,49mA	0,9992	0,9991	0,9988

*indicative values are shown for minimum, medium and maximum power levels.

Under/Over frequency tests

	Under Frequency		Over Frequency	
Parameter	Frequency (Hz)	Time (s)	Frequency (Hz)	Time (s)
Protection limit	48,00	0,5	50,50	0,5
Actual setting	48,00	0,46	50,50	0,46
Trip value	48,00	0,475	50,50	0,478

Under/Over voltage tests (single stage protection)

Parameter	Under Voltage		Over Voltage	
	Voltage (V)	Time (s)	Voltage (V)	Time (s)
Protection limit	207	0,5	253	0,5
Actual setting	207	0,46	253	0,46
Trip value	206,6	0,477	253,4	0,476

LoM test

Method	Frequency shift		
Output power level*	5%	50%	100%
Trip setting clearance time	0,5	0,5	0,5
Trip value clearance time	0,473	0,431	0,428

*Indicative values are shown for minimum, medium and maximum power levels.

Fault level contribution

Because of electronic current control short circuit current is limited to 1.54A for MI-300.