



## APPENDIX 2 Type Test Certification Test Result Sheet

### Grid-tied Inverter Details:

Manufacturer Samil Power Co., Ltd.  
Address No.6 Xuefengshan Road, Suqian High-tech Industrial Development Zone, Jiangsu Province, P. R. China  
Postal code 223800  
Country P. R. China  
Phone +86-510-83593132

Test house Details Samil Power Co., Ltd.

Date of test

2014/07/31

Signature

山亿新能源股份有限公司  
SAMIL POWER CO., LTD.

Type reference	Max AC power	Nominal AC power
SolarRiver 3300TL	3300 W	3000 W
SolarRiver 4400TL	4400 W	4000 W
SolarRiver 5200TL	5000 W	4600 W



**Test Results:**

**Power Quality**

Harmonic current emissions as per EN 61000-3-2 Class A									
Harmonic		2nd	3rd	5th	7th	9th	11th	13th	15th ... 39th
EN 61000-3-2 Limit [A]		1.08	2.30	1.14	0.77	0.40	0.33	0.21	0.15 x (15/n)
Test Values [A] (at rated power)	SolarRiver 3300TL	0.05	0.14	0.09	0.07	0.06	0.06	0.03	0.04
	SolarRiver 5200TL	0.01	0.14	0.08	0.03	0.11	0.10	0.10	0.14

Voltage fluctuations and flicker as per EN 61000-3-3				
	Starting	Stopping	Running (at rated power)	
EN 61000-3-3 Limit	4%	4%	$P_{st} = 1.0$	$P_{lt} = 0.65$
Test Value	0.40%	0.40%	0.08	0.064

Power Factor			
Protection Limit	0.95 lag – 0.95 lead at three voltage levels		
Test level (AC voltage)	210 V	230 V	250 V
Test value (at rated power)	0.999	0.999	0.998

**Grid Monitoring**

Under / Over Voltage Test				
	Under Voltage		Over Voltage	
Parameter	Voltage	Time	Voltage	Time
Protection limit	207 V	0.5 s	253 V	0.5 s
Actual setting	209 V	---	251 V	---
Trip value	208.8 V	0.088 s	251.9 V	0.081 s



Under / Over Frequency Test				
	Under Frequency		Over Frequency	
Parameter	Frequency	Time	Frequency	Time
Protection limit	47 Hz	0.5 s	51 Hz	0.5 s
Actual setting	47 Hz	---	50.5 Hz	---
Trip value	47.01 Hz	0.098 s	50.5 Hz	0.093 s

LoM Test			
Method used	Frequency Shift		
Output Power %	10%	50%	100%
Trip Setting	---	---	---
Trip Value	0.36 s	0.45 s	0.40 s

### Fault Level Contribution

Fault Level Contribution	
Device	Max Short Circuit Current
SolarRiver 3300TL	27 A
SolarRiver 4400TL	38 A
SolarRiver 5200TL	41 A

### Comments

These tests have been carried out with specifications and parameters set to meet the requirements of CER/01/190. It is hereby declared by the manufacturer that all units shipped to Ireland will have identical parameter settings and that these parameters cannot be changed by a user, installer or by any person other than the manufacturer.