

CERTIFICATE OF CONFORMITY

We herewith confirm that one sample of the following designated product

PV Grid-tied Inverter

Brand name: Samil Power
Model No.: SolarRiver 2600TL-S,
SolarRiver 1100TL-S,
SolarRiver 1600TL-S,
SolarRiver 2100TL-S

Product identification

has been tested with positive results against following standards:

VDE-AR-N 4105: 2011-08,
DIN VDE V 0124-100: 2012-07

Identification of regulations / standards

This certificate is issued for

Samil Power Co., Ltd.
No. 6, Xuefengshan Road, Suqian High-tech Industrial Development Zone
Jiangsu Province, P.R. China

(Name / Address)

The certification is valid only in accordance with the test report No. EFSH14020936-IE-06-L01 and when the product is manufactured in accordance with the tested sample.

EU Notified Body - LVD EMC R&TTE • NCB - IECCE CB Scheme • GS Body • eurofins - Bauart geprüft • TSC E-Mark
TCB - FCC USA • FCB - Industry Canada • BQTF - Bluetooth® • International Type Approval Service



(This is the result of tests carried out on those samples of the product referred to above which were submitted for testing, in accordance with the specification for the respective standards. Eurofins Product Service GmbH – Accredited according to EN 45011 - ISO / IEC Guide 65.)

2014-06-23

(Date)

2017-06-22

(Valid until)



Christian Schlobner
Certification Body

S3M21406-0048

Eurofins Product Service GmbH

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F.3 Requirements for the test report for power generation units			
Extract from test report for unit certificate "Determination of electrical properties"			No. EFSH14020936-IE-06-L01
Type of system:	Integrated NS protection	Manufacturer's data	Samil Power Co., Ltd No.6, Xuefengshan Road, Suqian High-tech Industrial Development Zone, Jiangsu Province, P.R.China
System manufacturer:	SolarRiver 1100TL-S	Type of system: (CHP, PV-WT, ...)	PV Grid-tied Inverter
	SolarRiver 1600TL-S	Active power (nominal power at reference conditions:)	
	SolarRiver 2100TL-S	Rated voltage:	230 V
SolarRiver 2600TL-S			
Measuring period:	from 2014-04-10 to 2014-06-02		
Active power:	P _{E_{max}} 2,5 kW		
Switch actions			
Making operation without default (of primary energy carrier)	k_i		0,112
Worst case at switch over of generator sections	k_i		0,098
Making operation at reference conditions (of primary energy carrier)	k_i		0,093
Breaking operation at nominal power	k_i		0,115
Worst-case value of all switching operations	k_{imax}		0,115
Flicker	Angle of network impedance ψ_k : 32° Coefficient of system flicker c_ψ : 1,62		

F.4 Requirements for the test report for the NS protection			
Extract from test report for NS protection "Determination of electrical properties"		No. EFSH14020936-IE-06-L01	
<input checked="" type="checkbox"/> NS protection as integrated NS protection			
Type of NS protection:	Integrated NS protection	Other manufacturer's data	
Software version:	Master DSP A:1.00 Slave DSP B:1.00	assigned to PGU type	SolarRiver 1100TL-S SolarRiver 1600TL-S SolarRiver 2100TL-S SolarRiver 2600TL-S
Manufacturer:	Samil Power Co., Ltd No.6, Xuefengshan Road, Suqian High-tech Industrial Development Zone, Jiangsu Province, P.R.China	Integrated interface switch	210H-2AH-F-C
		Type of Switching equipment 1	
		Type of Switching equipment 2	210H-2AH-F-C
Measuring period:	from 2014-04-10 to 2014-06-02		

Protection function	Setting value	Tripping value	Break time
Voltage drop protection $U <$	$0,8 * U_n$	$* U_n$	125,5 ms
Rise-in-voltage protection $U >$	$1,1 * U_n$	$* U_n$	553 s
Rise-in-voltage protection $U >>$	$1,15 * U_n$	$* U_n$	106,5 ms
Frequency decrease protection $f <$	47,5 Hz	Hz	91,5 ms
Frequency decrease protection $f >$	51,5 Hz	Hz	110,5 ms
Proper time of interface switch	10 ms		

The break time (sum of tripping time NS protection plus proper time of interface switch) shall not exceed 200 ms.
The verification of the full functional chain „NS protection – Interface switch“ has yield to intended disconnection.