



<b>Prüfbericht - Nr.: 10032574 003</b>			Seite 1 von 11 Page 1 of 11				
Test Report No.:							
<b>Auftraggeber:</b> Client:		Phoenixtec Power Co., Ltd. No.93, Shin-Hu 3rd Rd., Neihu, Taipei 114, Taiwan.					
<b>Gegenstand der Prüfung:</b> PV Inverter Test item:							
<b>Bezeichnung:</b> Identification:		SV 1500s and SV 2000s (Phoenixtec) CPS SCE1.5KTL (CHINT POWER) CPS SCE2KTL (CHINT POWER) SOLEIL 1F-TL2K (SIEL)		<b>Serien-Nr.:</b> Engineer sample Serial No.:			
<b>Wareneingangs-Nr.:</b> Receipt No.:		TCH 31134		<b>Eingangsdatum:</b> Jan., 2012 Date of receipt:			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> N/A Condition of test item at delivery:							
<b>Prüfort:</b> Testing location:		TÜV Rheinland Taiwan Ltd., Taichung Laboratory No. 9, Ln. 36, Sec. 3, Minsheng Rd., Daya District, Taichung City 428, Taiwan					
<b>Prüfgrundlage:</b> Test specification:		DIN V VDE V 0126-1-1:2006 DIN V VDE V 0126-1-1:2006/A1					
<b>Prüfergebnis:</b> Test Result:		<b>Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).</b> The test item passed the test specification(s).					
<b>Prüflaboratorium:</b> Testing Laboratory:		TÜV Rheinland Taiwan Ltd.					
<b>geprüft/ tested by:</b>			<b>kontrolliert/ reviewed by:</b>				
 Oct. 9, 2012 Best Chen / Senior Manager Datum      Name/Stellung      Unterschrift Date      Name/Position      Signature			 Oct. 9, 2012 David Lee / General Manager Datum      Name/Stellung      Unterschrift Date      Name/Position      Signature				
<b>Sonstiges/ Other Aspects:</b>							
Application letter dated Aug. 20, 2012, project order: 113160484 which issue the TÜV Rheinland Test Report acc. to standards DIN V VDE V 0126-1-1:2006 and DIN V VDE V 0126-1-1:2006/A1.							
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Abkürzungen:</b> P(ass) = entspricht Prüfgrundlage  F(all) = entspricht nicht Prüfgrundlage  N/A = nicht anwendbar  N/T = nicht getestet </td> <td style="width: 50%; vertical-align: top;"> <b>Abbreviations:</b> P(ass) = passed  F(all) = failed  N/A = not applicable  N/T = not tested </td> </tr> </table>						<b>Abkürzungen:</b> P(ass) = entspricht Prüfgrundlage F(all) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	<b>Abbreviations:</b> P(ass) = passed F(all) = failed N/A = not applicable N/T = not tested
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<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p>This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</p>							

Automatic disconnection device between a generator and the public low-voltage grid	
Report reference No.	: 10032574 003
Tested by (printed name and signature)	: See cover page
Approved by (printed name and signature)	: See cover page
Date of issue	: See cover page
Testing Laboratory name	: TÜV Rheinland Taiwan Ltd.
Address	: 11F., No.758, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105, Taiwan.
Testing location	: CBTL <input type="checkbox"/> CCATL <input type="checkbox"/> SMT <input type="checkbox"/> TMP <input type="checkbox"/>
Address	: TUV Rheinland Taiwan Ltd., Taichung Laboratory. No. 9, Ln. 36, Sec. 3, Minsheng Rd., Daya District, Taichung City 428, Taiwan.
Applicant's Name	: Phoenixtec Power Co., Ltd.
Address	: No.93, Shin-Hu 3rd Rd., Neihu, Taipei 114, Taiwan.
Test specification	
Standard	: DIN V VDE V 0126-1-1:2006 DIN V VDE V 0126-1-1:2006/A1
Test procedure	: Test Report
Non-standard test method	: N/A
Test Report Form	VDE 0126_1_1A
TRF originator.	: TUV Rheinland Taiwan Ltd.
Master TRF	Dated 2010-01
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Test item description	: PV INVERTER
Trademark	: 1) Phoenixtec, 2) CHINT POWER 3) SIEL
Model and/or type reference	: 1) SV 1500s and SV 2000s 2) CPS SCE1.5KTL and CPS SCE2KTL 3) SOLEIL 1F-TL2K

Rating(s)	: DC Rated input voltage: 360Vdc, DC Max. Input current/Tracker: 9.1A (for SV 1500s and CPS SCE1.5KTL) 11A (for SV 2000s, CPS SCE2KTL and SOLEIL 1F-TL2K), DC Max. input voltage: 550Vdc, DC Max. PV Isc: 15A  AC Rated output: for SV 1500s and CPS SCE1.5KTL 230Vac, 50Hz, 6.5A, 1500W, 1 $\phi$ , PF=0.99 <b>max.</b> , for SV 2000s, CPS SCE2KTL and SOLEIL 1F-TL2K 230Vac, 50Hz, 8.7A, 2000W, 1 $\phi$ , PF=0.99 <b>max.</b> , Ingress protection: IP43.
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**Test items particulars:**

Equipment mobility	:	Permanent connection
Class of equipment	:	Class I
Mass of equipment (kg)	:	12.1 (for 1500W), 12.9 (for 2000W)
Protection against ingress of water	:	N/A, according to DIN VDE V 0126-1-1 and DIN VDE V 0126-1-1/A1

**Test case verdicts**

Test case does not apply to the test object :	N/A
Test item does meet the requirement :	P(ass)
Test item does not meet the requirement :	F(ail)

**Testing**

Date of receipt of test item :	Aug., 2012
Date(s) of performance of test :	Aug., 2012

**General product information:**

Factory information:

Same as report no. 10032574 001.




Description of change(s):

1. Evaluated all models according to standard DIN VDE V 0126-1-1.
2. Correction of typing error for rating.
3. To add one new model SOLEIL 1F-TL2K.

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1.	<ul style="list-style-type: none"> <li>Over frequency test</li> </ul>	Both standards are same except for over frequency test. See appended table for testing result.
2.	<ul style="list-style-type: none"> <li>N/A</li> </ul>	No testing considered to be necessary. See page 3 with bold type word.
3.	<ul style="list-style-type: none"> <li>Label check</li> </ul>	<p>The new model is similar to original model SV 2000s, except for prints on surface of top enclosure, enclosure shape, model name and trade mark. No testing considered to be necessary.</p> <p>IP43 is not considered to do the test again due to the protection construction of enclosure is identical to the original one.</p> <p>Label see page 6 and photos see pages 8-11.</p>

**Copy of marking plate:**

<b>SiEL</b>	
<b>PV Inverter</b>	
MODEL NO.:	SOLEIL 1F-TL2K
DC Max. input voltage	550V
DC Max. PV Isc	15A
DC Working voltage range	100~550V
DC MPPT voltage range	200~500V
DC Rated Input voltage	360V
DC Max. Input current / Tracker	11A
AC Rated output voltage	230V
AC Rated output frequency	50Hz
AC Nominal output power	2000W
AC Nominal output current	8.7A
Protective class	Class I
Degree of protection	IP43
Power Factor (Rated power)	0.99
Power factor range	±0.9 on demand
  	
Made In Taiwan	

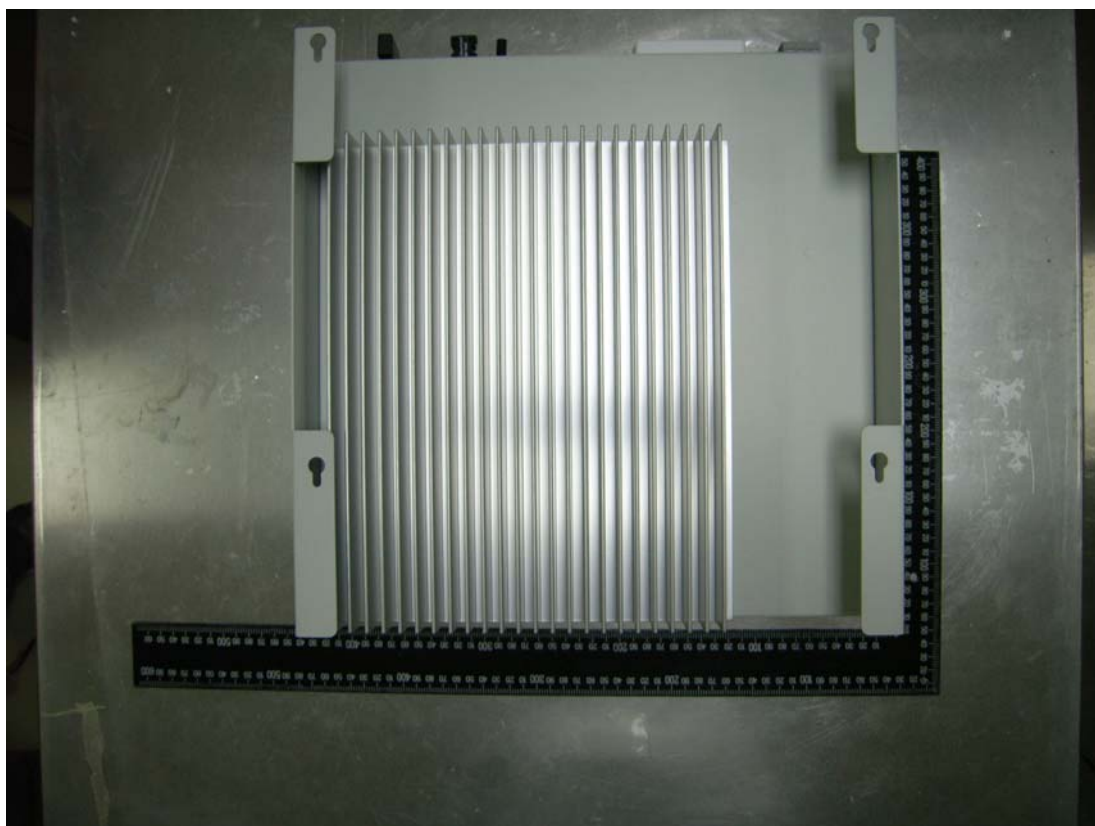
<b>4.3 &amp; 6.3</b>		<b>TABLE: Frequency Monitoring</b> Measurements of time values according the accuracy of the signal.			<b>P</b>
		Operating condition: 100% real power of EUT	Power ac= 2000 W, Uac= 230 V, Udc= 360 V		—
Frequency change rate with 1 Hz/s		Measured Threshold time	Limit	Turn on after	remark
	50 Hz – 50.2 Hz	174 ms	200ms max	67 sec	-
Note:					

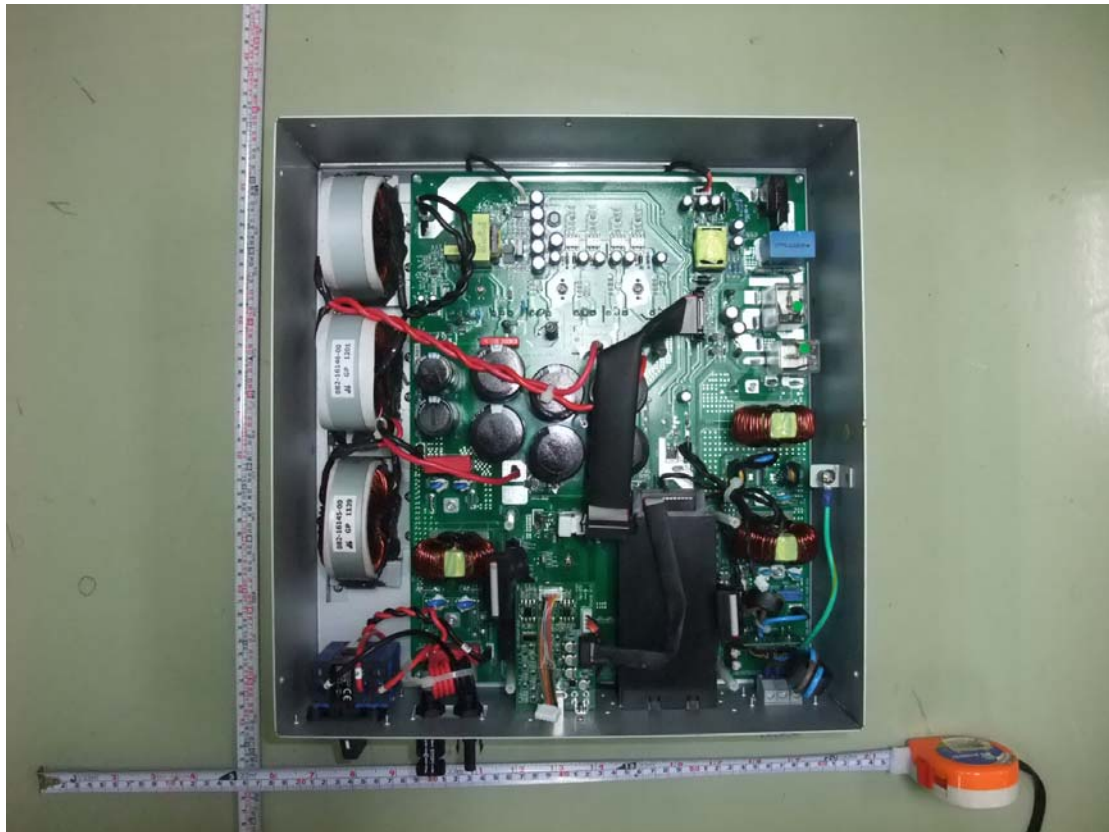
**Product Photos:**











**End of Test Report**