

Produkte
Products



Prüfbericht - Nr.: 10032568 003			Seite 1 von 11 Page 1 of 11		
Test Report No.:					
Auftraggeber: Client:		Phoenixtec Power Co., Ltd. No.93, Shin-Hu 3rd Rd., Neihu, Taipei 114, Taiwan.			
Gegenstand der Prüfung: PV Inverter Test item:					
Bezeichnung: Identification:		SV 4600s and SV 6000s (Phoenixtec) CPS SCE4.6KTL-O (CHINT POWER) SOLEIL 1F-TL4,6K (SIEL) SOLEIL 1F-TL6K (SIEL)		Serien-Nr.: Engineer sample Serial No.:	
Wareneingangs-Nr.: Receipt No.:		TCH 31134		Eingangsdatum: Jan., 2012 Date of receipt:	
Zustand des Prüfgegenstandes bei Anlieferung: N/A Condition of test item at delivery:					
Prüfort: Testing location:		TÜV Rheinland Taiwan Ltd., Taichung Laboratory No. 9, Ln. 36, Sec. 3, Minsheng Rd., Daya District, Taichung City 428, Taiwan			
Prüfgrundlage: Test specification:		DIN V VDE V 0126-1-1:2006 DIN V VDE V 0126-1-1:2006/A1			
Prüfergebnis: Test Result:		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). The test item passed the test specification(s).			
Prüflaboratorium: Testing Laboratory:		TÜV Rheinland Taiwan Ltd.			
geprüft/ tested by:			kontrolliert/ reviewed by:		
 Sep. 28, 2012 Best Chen / Senior Manager			 Sep. 28, 2012 David Lee / General Manager		
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Unterschrift Signature
Sonstiges/ Other Aspects:					
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.					
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(all) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet			Abbreviations: P(ass) = passed F(all) = failed N/A = not applicable N/T = not tested		
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. 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.					

Automatic disconnection device between a generator and the public low-voltage grid	
Report reference No.	: 10032568 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 4600s and SV 6000s 2) CPS SCE4.6KTL-O 3) SOLEIL 1F-TL4,6K and SOLEIL 1F-TL6K

Rating(s)	: DC Rated input voltage: 360Vdc, DC Max. Input current/Tracker: 17A (for SV 4600s, CPS SCE4.6KTL-O and SOLEIL 1F-TL4,6K) 20A (for SV 6000s and SOLEIL 1F-TL6K), DC Max. input voltage: 600Vdc, DC Max. PV Isc: 35A (for SV 4600s, CPS SCE4.6KTL-O and SOLEIL 1F-TL4,6K), 45A (for SV 6000s and SOLEIL 1F-TL6K). AC Rated output: for SV 4600s, CPS SCE4.6KTL-O and SOLEIL 1F-TL4,6K: 230Vac, 50Hz, 20A, 4600W, 1 ϕ , PF=0.99 max. , for SV 6000s and SOLEIL 1F-TL6K: 230Vac, 50Hz, 26A, 6000W, 1 ϕ , PF=0.99 max. , Ingress protection: IP65 for enclosure and IP55 for Fan.
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Test items particulars:

Equipment mobility	:	Permanent connection
Class of equipment	:	Class I
Mass of equipment (kg)	:	30.9 (for 4000W) 33.6 (for 6000W)
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. 10032568 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 two new models SOLEIL 1F-TL4,6K and SOLEIL 1F-TL6K.

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

Change	Testing	Comments
1.	<ul style="list-style-type: none"> Over frequency test 	Both standards are same except for over frequency test. See appended table for testing result.
2.	<ul style="list-style-type: none"> N/A 	No testing considered to be necessary. See page 3 with bold type word.
3.	<ul style="list-style-type: none"> Label check 	These models are similar to original models SV 4600s and SV 6000s, except for prints on surface of top enclosure, enclosure shape, model name and trade mark. No testing considered to be necessary. IP65 is not considered to do the test again due to the protection construction of enclosure is identical to the original one. Label see page 6 and photos see pages 8-11.

Copy of marking plate:



PV Inverter

MODEL NO.:	SOLEIL 1F-TL6K
DC Max. input voltage	600V
DC Max. PV Isc	45A
DC Working voltage range	100~500V
DC MPPT voltage range	200~500V
DC Rated input voltage	360V
DC Max. input current / Tracker	20A
AC Rated output voltage	230V
AC Rated output frequency	50Hz
AC Nominal output power	6000W
AC Nominal output current	26A
Protective class	Class I
Degree of protection	IP65
Power Factor (Rated power)	0.99
Power factor range	±0.9 on demand



Made In Taiwan



PV Inverter

MODEL NO.:	SOLEIL 1F-TL4,6K
DC Max. Input voltage	600V
DC Max. PV Isc	35A
DC Working voltage range	100~500V
DC MPPT voltage range	200~500V
DC Rated input voltage	360V
DC Max. input current / Tracker	17A
AC Rated output voltage	230V
AC Rated output frequency	50Hz
AC Nominal output power	4600W
AC Nominal output current	20A
Protective class	Class I
Degree of protection	IP65
Power Factor (Rated power)	0.99
Power factor range	±0.9 on demand

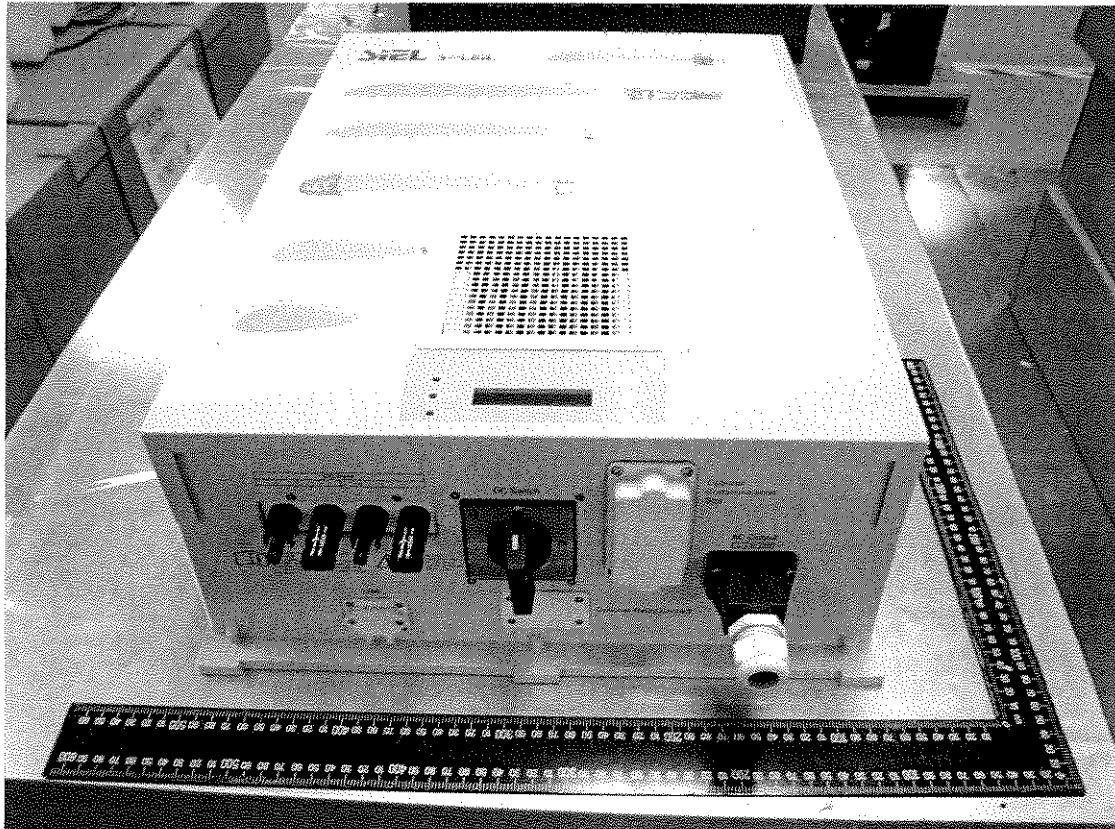


Made by Phoenixtec Taiwan

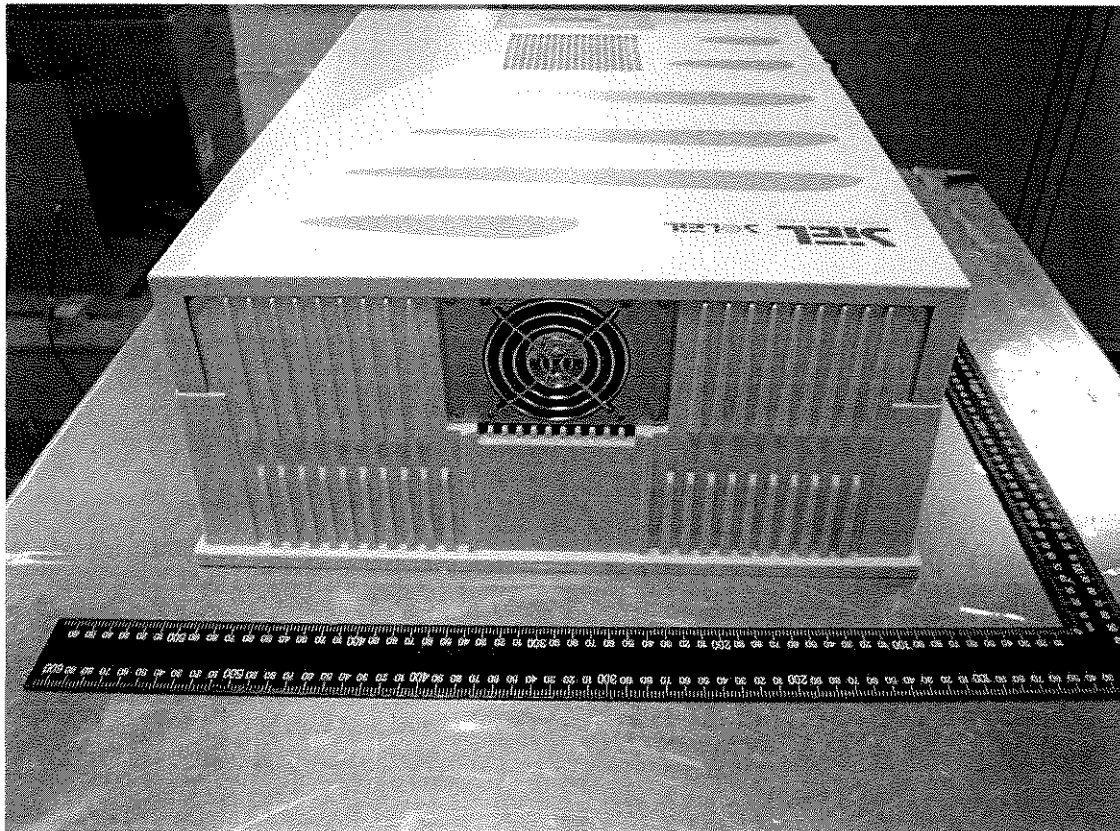
4.3 & 6.3		TABLE: Frequency Monitoring Measurements of time values according the accuracy of the signal.			P
		Operating condition: 100% real power of EUT		Power ac= 6000 W, Uac= 230 V, Udc= 360 V	—
Frequency change rate with 1 Hz/s		Measured Threshold time	Limit	Turn on after	remark
	50 Hz – 50.2 Hz	174 ms	200ms max	66 sec	-
Note:					

Product Photos:

For all models



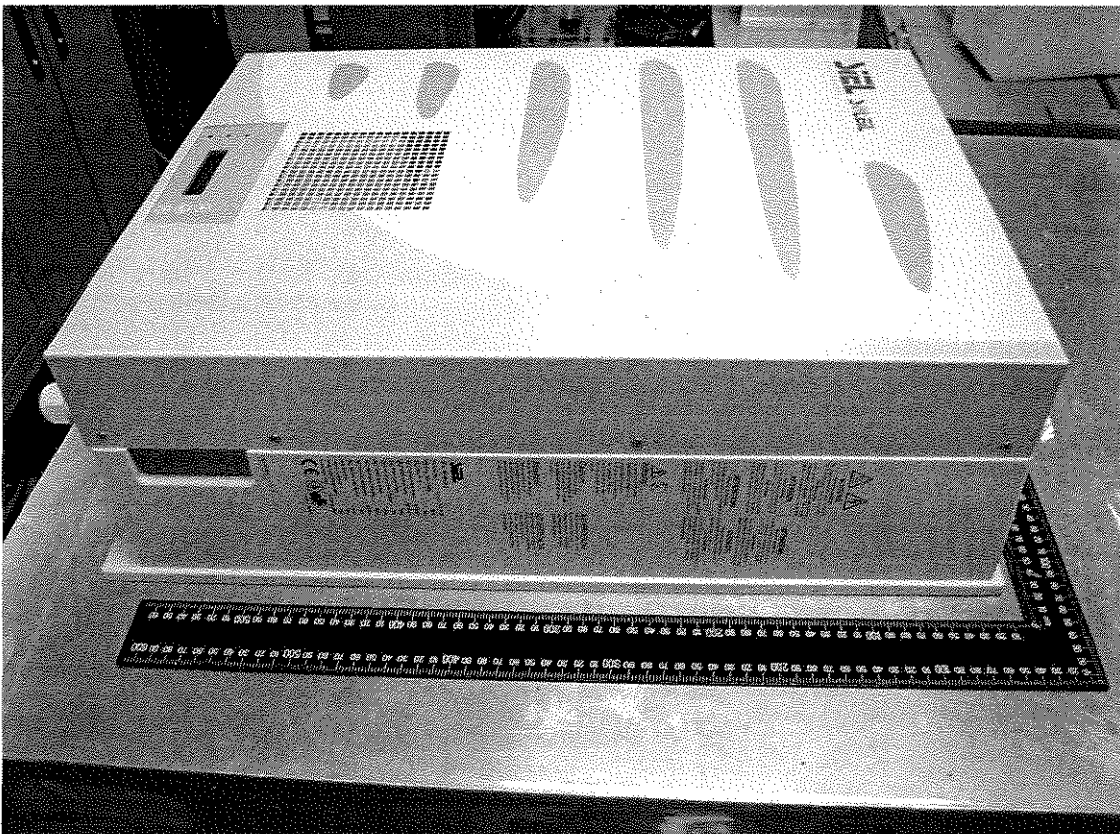
For model SOLEIL 1F-TL6K



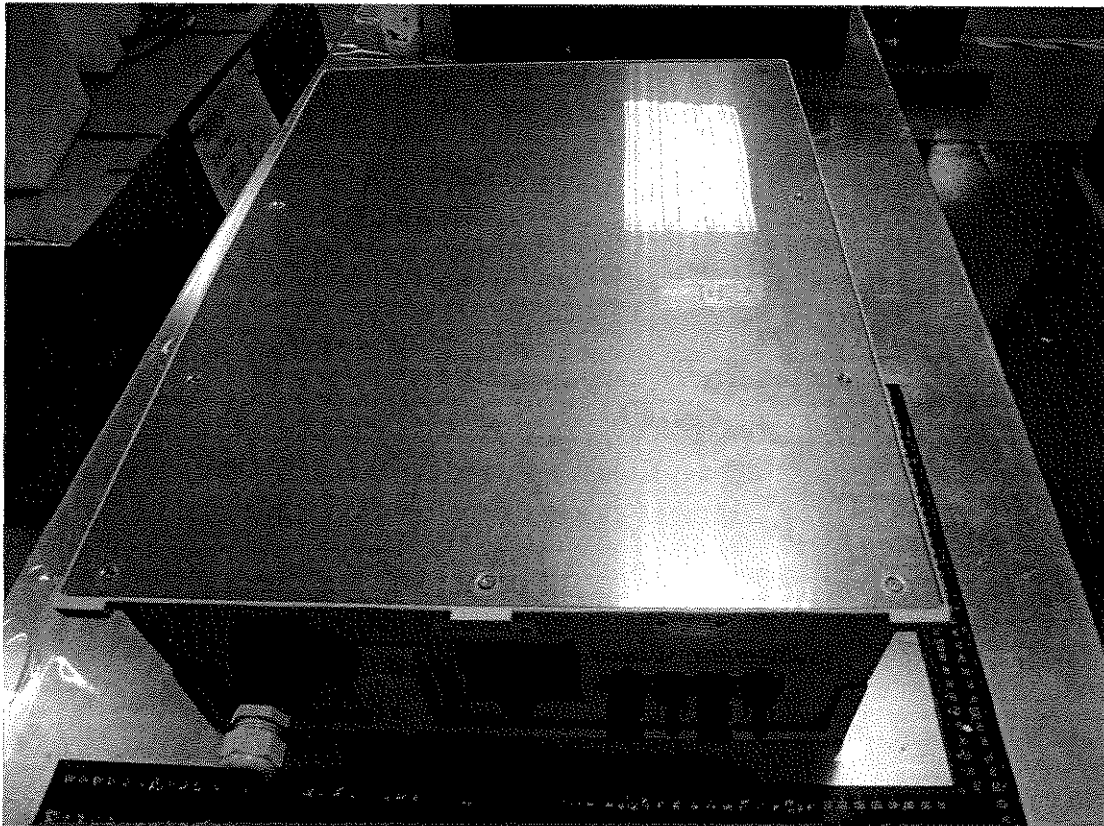
For all models



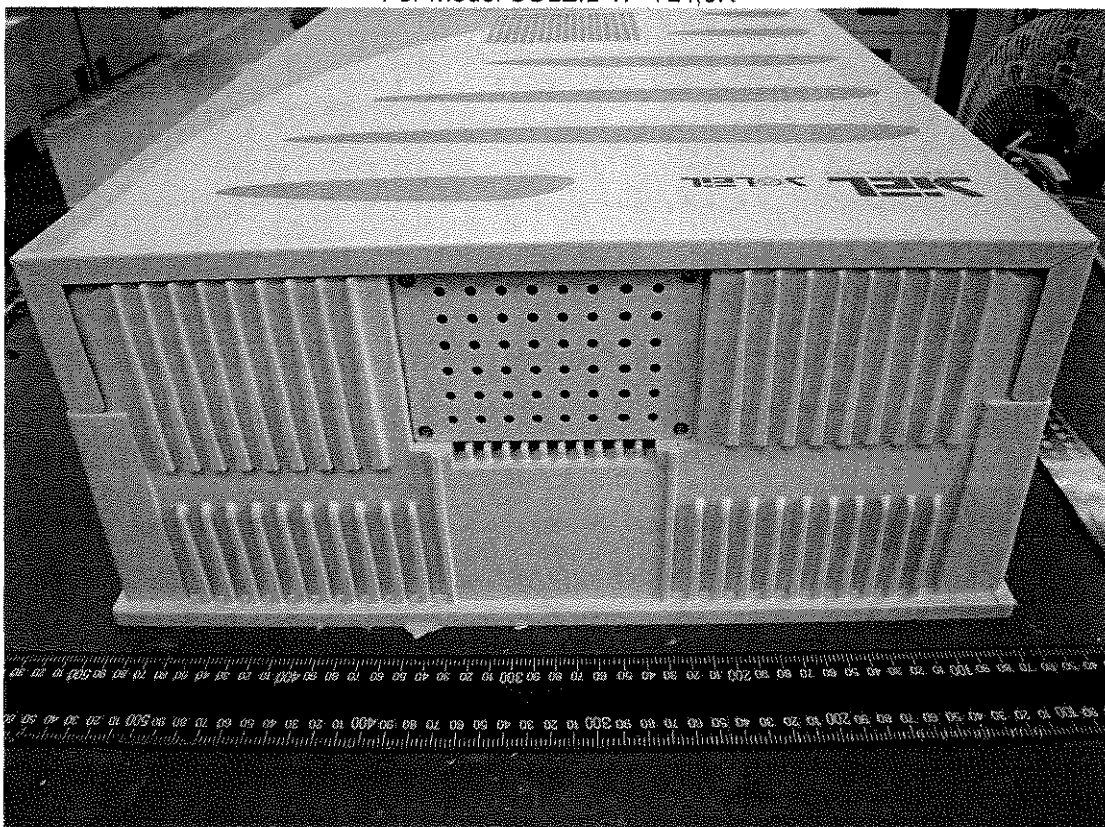
For all models



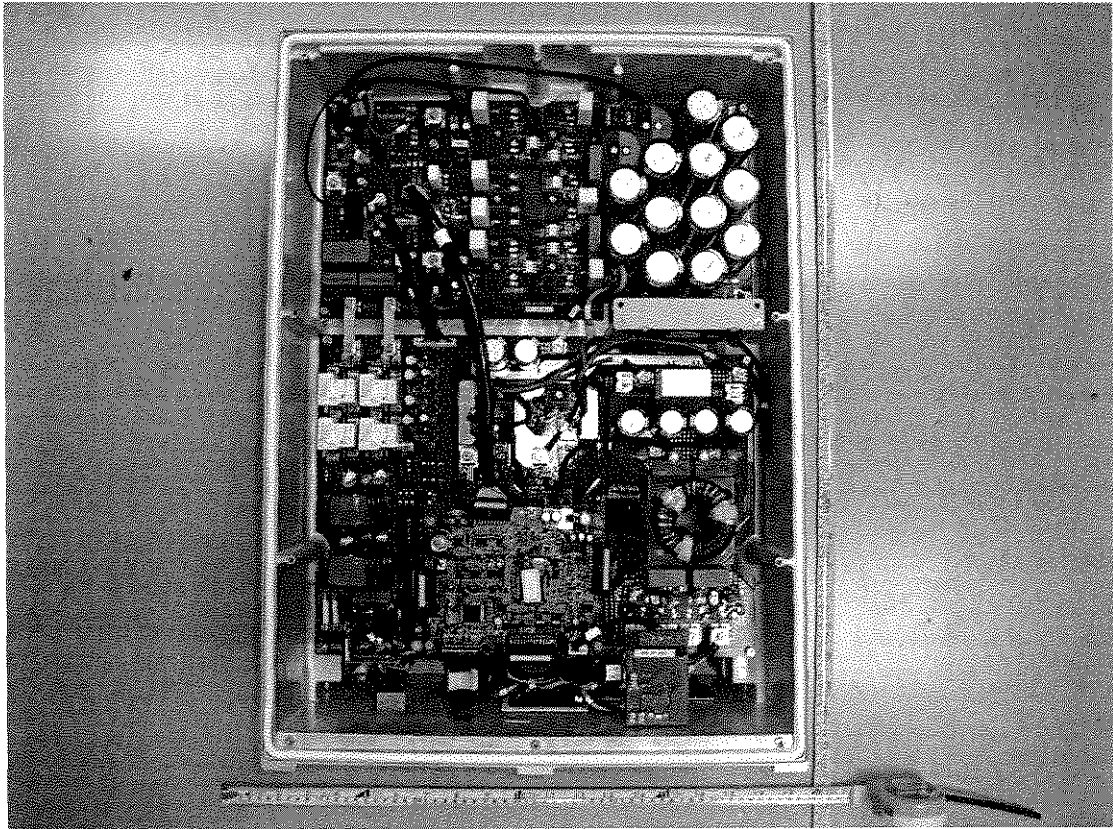
For all models



For model SOLEIL 1F-TL4,6K



For all models



End of Test Report

Produkte
Products



Prüfbericht - Nr.: 10032568 002 Test Report No.:			Seite 1 von 10 Page 1 of 10				
Auftraggeber: Client:			Phoenixtec Power Co., Ltd. No.93, Shin-Hu 3rd Rd., Neihu, Taipei 114, Taiwan.				
Gegenstand der Prüfung: PV Inverter Test item:							
Bezeichnung: Identification:		CPS SCE4.6KTL-O		Serien-Nr.: N/A Serial No.:			
Wareneingangs-Nr.: Receipt No.:		N/A		Eingangsdatum: N/A Date of receipt:			
Zustand des Prüfgegenstandes bei Anlieferung: N/A Condition of test item at delivery:							
Prüfort: Testing location:		TÜV Rheinland Taiwan Ltd., Taichung Laboratory No. 9, Ln. 36, Sec. 3, Minsheng Rd., Daya District, Taichung City 428, Taiwan					
Prüfgrundlage: Test specification:		DIN V VDE V 0126-1-1:2006/A1					
Prüfergebnis: Test Result:		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). The test item passed the test specification(s).					
Prüflaboratorium: Testing Laboratory:		TÜV Rheinland Taiwan Ltd.					
geprüft/ tested by:			kontrolliert/ reviewed by:				
June 5, 2012 Best Chen / Senior Manager			June 5, 2012 David Lee / General Manager				
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Unterschrift Signature		
Sonstiges/ Other Aspects:							
Application letter dated May 16, 2012, project order: 113157113 which issue the TÜV Rheinland Test Report acc. to standard DIN V VDE V 0126-1-1:2006/A1.							
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet </td> <td style="width: 50%; vertical-align: top;"> Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested </td> </tr> </table>						Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested						
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Automatic disconnection device between a generator and the public low-voltage grid	
Report reference No.	: 10032568 002
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/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	: CHINT POWER
Model and/or type reference	: CPS SCE4.6KTL-O ₁
Rating(s)	: DC Rated input voltage: 360Vdc, DC Max. Input current/Tracker: 17A, DC Max. input voltage: 600Vdc, DC Max. PV Isc: 35A. AC Rated output: 230Vac, 50Hz, 20A, 4600W, 1 ϕ , PF=0.99, Ingress protection: IP65.

Test items particulars:		
Equipment mobility	:	Permanent connection
Class of equipment	:	Class I
Mass of equipment (kg)	:	30.9
Protection against ingress of water	:	N/A, according to 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 :		N/A
Date(s) of performance of test :		N/A

General product information:

Factory information:

Same as report no. 10032568 001.

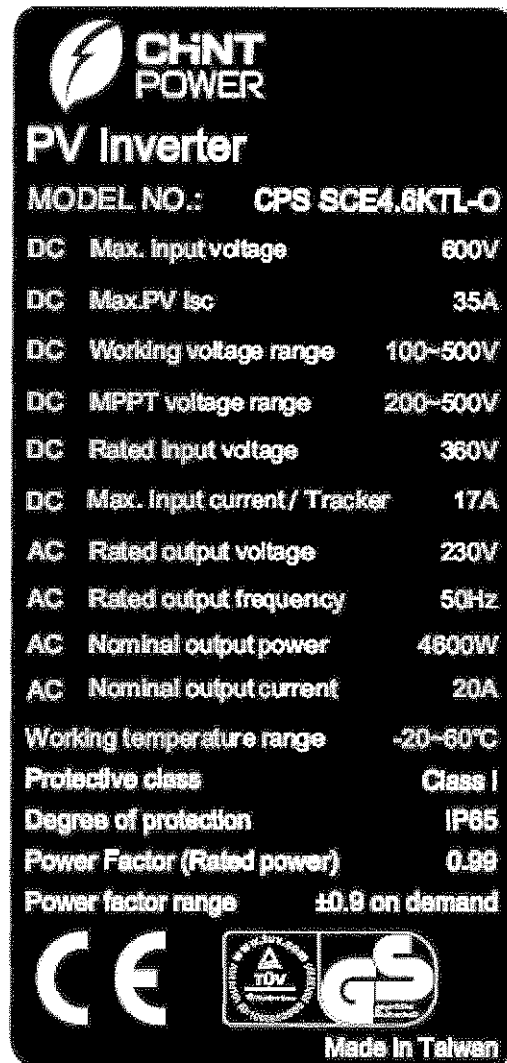
Description of change(s):

1. To add one model CPS SCE4.6KTL-O.

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

Change	Testing	Comments
1.	<ul style="list-style-type: none"> • Label check 	<p>The model is similar to original model SV 4600s, except for enclosure shape, model name and trade mark. No testing considered to be necessary. IP65 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 6-10.</p>

Copy of marking plate:



Product Photos:

