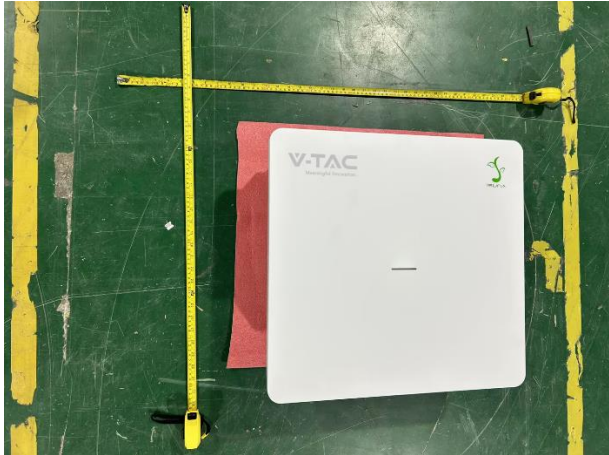


Prüfbericht-Nr.: Test report no.:	CN23SKYS 008	Auftrags-Nr.: Order no.:	168477990	Seite 1 von 11 Page 1 of 11
Kunden-Referenz-Nr.: Client reference no.:	2280861	Auftragsdatum: Order date:	2024-04-09	
Auftraggeber: Client:	V-TAC EXPORTS LIMITED ROOM 301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG			
Prüfgegenstand: Test item:	Hybrid inverter			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Isuna 3000S, Isuna 3600S, Isuna 4000S, Isuna 4600S, Isuna 5000S, Isuna 6000S			
Auftrags-Inhalt: Order content:	Co-license approval			
Prüfgrundlage: Test specification:	CEI 0-21:2022-03 CEI 0-21; V1:2022-11			
Wareneingangsdatum: Date of sample receipt:	2024-02-24			
Prüfmuster-Nr.: Test sample no.:	A003557590-001			
Prüfzeitraum: Testing period:	2024-02-24 - 2024-05-20			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
erstellt von: created by:	<i>Zhibin Cai</i>	genehmigt von: authorized by:	<i>Eric Zeng</i>	
Datum: Date:	2024-06-17	Ausstellungsdatum: Issue date:	2024-06-17	
Stellung / Position:	Zhibin Cai Project Engineer	Stellung / Position:	Eric Zeng Reviewer	
Sonstiges / <i>Other:</i>	1. For issuing Co-license approval. 2. The models mentioned above are identical to those listed in original report CN23SKYS 007, except the client name, address, model number, color and trademark mentioned above. Differences have no effect on test results. This report does not evidence compliance of the provided sample with the relevant standards but only with the referred tests. This test report documents the findings of examination conducted on the delivered product mentioned above only. This report does not entitle the applicant to carry any safety mark on this or similar products. Further for sales or other application purposes of the tested product, any reference to TÜV Rheinland or a test through TÜV Rheinland is only permissible with prior written consent of TÜV Rheinland.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	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. <i>This test report only relates to the a. m. test sample. 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 test mark.</i>				

Prüfbericht-Nr.: CN23SKYS 008
Test report no.:

Seite 2 von 11
Page 2 of 11

Anmerkungen
Remarks

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
2	<p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p>
3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

Prüfbericht-Nr.: CN23SKYS 008
Test report no.:

Seite 3 von 11
Page 3 of 11


Absatz Clause	Anforderungen - Prüfungen Requirements – Tests 2 PFG 2516:2014-11	Messergebnisse – Bemerkungen Measuring results - Remarks	Ergebnis Result
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General Information:

Original License Holder	Shenzhen Sinexcel Isuna Energy Technology Co., Ltd.
Address:	Room 301, Building 6, BaiWangXin High-tech Industrial Park, Nanshan District, Shenzhen, 518055 Guangdong P.R. China
Original License Number:	A3 50633554 0001
Co-License Holder	V-TAC EXPORTS LIMITED
Address:	ROOM 301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG
Factory number	2434636

List of Appendix : N/A

Product details:

Product Name:	Hybrid Inverter
Trademark:	
Model Name:	Isuna 3000S, Isuna 3600S, Isuna 4000S, Isuna 4600S, Isuna 5000S, Isuna 6000S
Original Model Name:	Isuna 3000S, Isuna 3600S, Isuna 4000S, Isuna 4600S, Isuna 5000S, Isuna 6000S

The models Isuna 3000S, Isuna 3600S, Isuna 4000S, Isuna 4600S, Isuna 5000S, Isuna 6000S are exactly the same as Isuna 3000S, Isuna 3600S, Isuna 4000S, Isuna 4600S, Isuna 5000S, Isuna 6000S.

Prüfbericht-Nr.: CN23SKYS 008
Test report no.:

Seite 4 von 11
Page 4 of 11

Absatz Clause	Anforderungen - Prüfungen Requirements – Tests 2 PFG 2516:2014-11	Messergebnisse – Bemerkungen Measuring results - Remarks	Ergebnis Result
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Copy of marking plate:

V-TAC | **isuna**
Meaningful Innovation.

HYBRID INVERTER **Isuna 3000S**
SKU:12193

PV Port

Operating Voltage	80 to 550d.c.V
Max. Input Voltage	600d.c.V
Max. Input Current	2×18d.c.A
Short-Circuit Current	2×22d.c.A

Battery Port

Voltage Range	42 to 58d.c.V
Max. Charge Current	75d.c.A
Max. Discharge Current	75d.c.A

AC Input / Output Port


Nom. Voltage	L/N/PE ~230a.c.V
Nom. Frequency	50Hz
Max. Input Current	16.4a.c.A
Max. Input Apparent Power	3.6kVA
Max. Output Current	13.6a.c.A
Max. Output Apparent Power	3kVA

Back-up Output Port

Nom. Voltage	L/N/PE~230a.c.V
Nom. Frequency	50Hz
Max. Output Current	13.6a.c.A
Max. Output Apparent Power	3kVA


General Data

Power factor	-0.8 to 0.8
Protective Class	I
Ingress Protection	IP65
Operating Temperature	-25 to 60°C
Derating Temperature	>40°C



Manufacturer: Shenzhen Sinexcel Isuna Energy Technology.,Ltd
Address: Building #6,Baiwangxin High-tech industrial park,1002,Songbai road,Nanshan district,Shenzhen, Guangdong,China
Importer: V-TAC EUROPE LTD
Address: Karavelow 9B,bul.L.Plovdiv 4000,Bulgaria

SN:



Made in China

V-TAC | **isuna**
Meaningful Innovation.

HYBRID INVERTER **Isuna 3600S**
SKU:12157

PV Port

Operating Voltage	80 to 550d.c.V
Max. Input Voltage	600d.c.V
Max. Input Current	2×18d.c.A
Short-Circuit Current	2×22d.c.A

Battery Port

Voltage Range	42 to 58d.c.V
Max. Charge Current	85d.c.A
Max. Discharge Current	85d.c.A

AC Input / Output Port


Nom. Voltage	L/N/PE ~230a.c.V
Nom. Frequency	50Hz
Max. Input Current	22.7a.c.A
Max. Input Apparent Power	5kVA
Max. Output Current	16.4a.c.A
Max. Output Apparent Power	3.6kVA

Back-up Output Port

Nom. Voltage	L/N/PE~230a.c.V
Nom. Frequency	50Hz
Max. Output Current	16.4a.c.A
Max. Output Apparent Power	3.6kVA


General Data

Power factor	-0.8 to 0.8
Protective Class	I
Ingress Protection	IP65
Operating Temperature	-25 to 60°C
Derating Temperature	>40°C



Manufacturer: Shenzhen Sinexcel Isuna Energy Technology.,Ltd
Address: Building #6,Baiwangxin High-tech industrial park,1002,Songbai road,Nanshan district,Shenzhen, Guangdong,China
Importer: V-TAC EUROPE LTD
Address: Karavelow 9B,bul.L.Plovdiv 4000,Bulgaria

SN:



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V-TAC | **isuna**
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HYBRID INVERTER **Isuna 4000S**
SKU:12194

PV Port

Operating Voltage	80 to 550d.c.V
Max. Input Voltage	600d.c.V
Max. Input Current	2×18d.c.A
Short-Circuit Current	2×22d.c.A

Battery Port

Voltage Range	42 to 58d.c.V
Max. Charge Current	85d.c.A
Max. Discharge Current	85d.c.A

AC Input / Output Port


Nom. Voltage	L/N/PE ~230a.c.V
Nom. Frequency	50Hz
Max. Input Current	22.7a.c.A
Max. Input Apparent Power	5kVA
Max. Output Current	18.2a.c.A
Max. Output Apparent Power	4kVA

Back-up Output Port

Nom. Voltage	L/N/PE~230a.c.V
Nom. Frequency	50Hz
Max. Output Current	18.2a.c.A
Max. Output Apparent Power	4kVA


General Data

Power factor	-0.8 to 0.8
Protective Class	I
Ingress Protection	IP65
Operating Temperature	-25 to 60°C
Derating Temperature	>40°C



Manufacturer: Shenzhen Sinexcel Isuna Energy Technology.,Ltd
Address: Building #6,Baiwangxin High-tech industrial park,1002,Songbai road,Nanshan district,Shenzhen, Guangdong,China
Importer: V-TAC EUROPE LTD
Address: Karavelow 9B,bul.L.Plovdiv 4000,Bulgaria

SN:



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Prüfbericht-Nr.: CN23SKYS 008
Test report no.:

Seite 5 von 11
Page 5 of 11

Absatz Clause	Anforderungen - Prüfungen Requirements - Tests 2 PFG 2516:2014-11	Messergebnisse - Bemerkungen Measuring results - Remarks	Ergebnis Result
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V-TAC | **isuna**
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HYBRID INVERTER Isuna 4600S
SKU:12195

PV Port
Operating Voltage 80 to 550d.c.V
Max. Input Voltage 600d.c.V
Max. Input Current 2×18d.c.A
Short-Circuit Current 2×22d.c.A

Battery Port
Voltage Range 42 to 58d.c.V
Max. Charge Current 100d.c.A
Max. Discharge Current 100d.c.A

AC Input / Output Port
Nom. Voltage L/N/PE ~230a.c.V
Nom. Frequency 50Hz
Max. Input Current 27.2a.c.A
Max. Input Apparent Power 6kVA
Max. Output Current 20.8a.c.A
Max. Output Apparent Power 4.6kVA

Back-up Output Port
Nom. Voltage L/N/PE~230a.c.V
Nom. Frequency 50Hz
Max. Output Current 20.8a.c.A
Max. Output Apparent Power 4.6kVA

General Data
Power factor -0.8 to 0.8
Protective Class I
Ingress Protection IP65
Operating Temperature -25 to 60°C
Derating Temperature >40°C



Manufacturer: Shenzhen Sinexcel Isuna Energy Technology.,Ltd
Address: Building #6,Baiwangxin High-tech industrial park,1002,Songbai road,Nanshan district,Shenzhen, Guangdong,China
Importer: V-TAC EUROPE LTD
Address: Karavelow 9B,bul.L.Plovdiv 4000,Bulgaria

SN:



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V-TAC | **isuna**
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HYBRID INVERTER Isuna 5000S
SKU:12158

PV Port
Operating Voltage 80 to 550d.c.V
Max. Input Voltage 600d.c.V
Max. Input Current 2×18d.c.A
Short-Circuit Current 2×22d.c.A

Battery Port
Voltage Range 42 to 58d.c.V
Max. Charge Current 100d.c.A
Max. Discharge Current 100d.c.A

AC Input / Output Port
Nom. Voltage L/N/PE ~230a.c.V
Nom. Frequency 50Hz
Max. Input Current 27.2a.c.A
Max. Input Apparent Power 6kVA
Max. Output Current 22.7a.c.A
Max. Output Apparent Power 5kVA

Back-up Output Port
Nom. Voltage L/N/PE~230a.c.V
Nom. Frequency 50Hz
Max. Output Current 22.7a.c.A
Max. Output Apparent Power 5kVA

General Data
Power factor -0.8 to 0.8
Protective Class I
Ingress Protection IP65
Operating Temperature -25 to 60°C
Derating Temperature >40°C



Manufacturer: Shenzhen Sinexcel Isuna Energy Technology.,Ltd
Address: Building #6,Baiwangxin High-tech industrial park,1002,Songbai road,Nanshan district,Shenzhen, Guangdong,China
Importer: V-TAC EUROPE LTD
Address: Karavelow 9B,bul.L.Plovdiv 4000,Bulgaria

SN:



Made in China

V-TAC | **isuna**
Meaningful Innovation.

HYBRID INVERTER Isuna 6000S
SKU:12156

PV Port
Operating Voltage 80 to 550d.c.V
Max. Input Voltage 600d.c.V
Max. Input Current 2×18d.c.A
Short-Circuit Current 2×22d.c.A

Battery Port
Voltage Range 42 to 58d.c.V
Max. Charge Current 100d.c.A
Max. Discharge Current 100d.c.A

AC Input / Output Port
Nom. Voltage L/N/PE ~230a.c.V
Nom. Frequency 50Hz
Max. Input Current 27.2a.c.A
Max. Input Apparent Power 6kVA
Max. Output Current 27.2a.c.A
Max. Output Apparent Power 6kVA

Back-up Output Port
Nom. Voltage L/N/PE~230a.c.V
Nom. Frequency 50Hz
Max. Output Current 27.2a.c.A
Max. Output Apparent Power 6kVA

General Data
Power factor -0.8 to 0.8
Protective Class I
Ingress Protection IP65
Operating Temperature -25 to 60°C
Derating Temperature >40°C



Manufacturer: Shenzhen Sinexcel Isuna Energy Technology.,Ltd
Address: Building #6,Baiwangxin High-tech industrial park,1002,Songbai road,Nanshan district,Shenzhen, Guangdong,China
Importer: V-TAC EUROPE LTD
Address: Karavelow 9B,bul.L.Plovdiv 4000,Bulgaria

SN:



Made in China

Prüfbericht-Nr.: CN23SKYS 008
Test report no.:

Seite 6 von 11
Page 6 of 11

Absatz Clause	Anforderungen - Prüfungen Requirements - Tests 2 PFG 2516:2014-11	Messergebnisse - Bemerkungen Measuring results - Remarks	Ergebnis Result
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Photos:

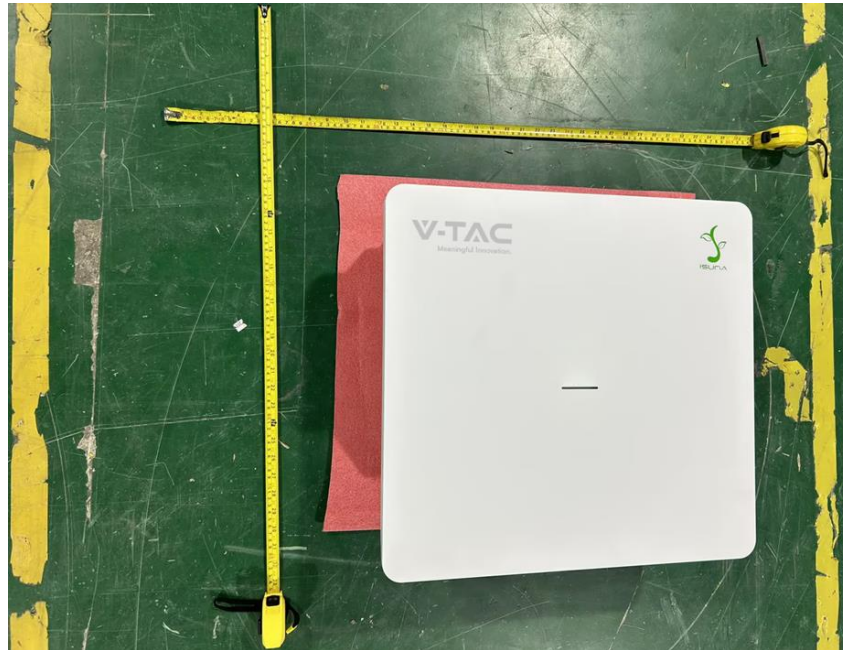


Figure 1 Front view



Figure 2 Top view

Prüfbericht-Nr.: CN23SKYS 008
Test report no.:

Seite 7 von 11
Page 7 of 11

Absatz Clause	Anforderungen - Prüfungen Requirements - Tests 2 PFG 2516:2014-11	Messergebnisse - Bemerkungen Measuring results - Remarks	Ergebnis Result
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Figure 3 Connection port view

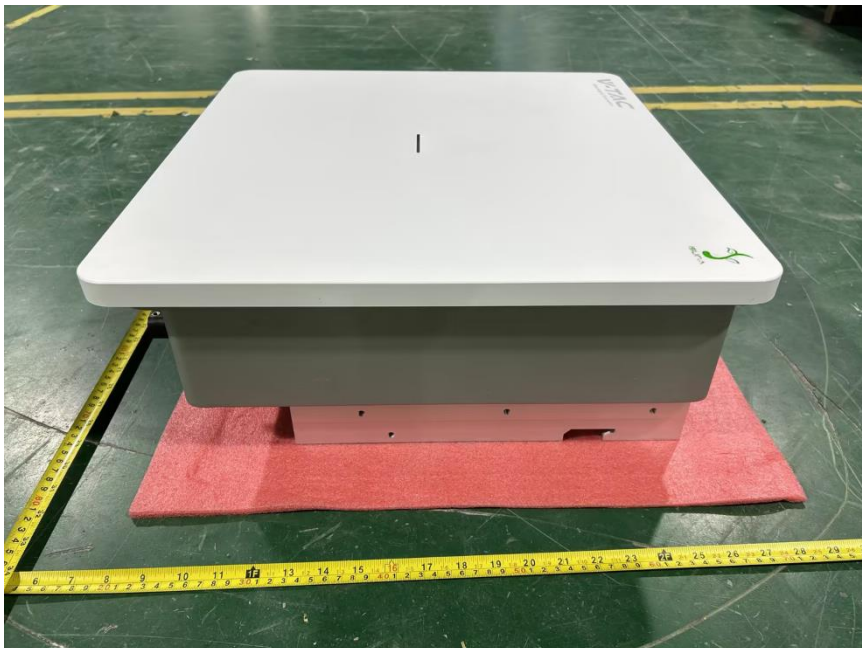


Figure 4 Right side view

Prüfbericht-Nr.: CN23SKYS 008
Test report no.:

Seite 8 von 11
Page 8 of 11

Absatz Clause	Anforderungen - Prüfungen Requirements – Tests 2 P fG 2516:2014-11	Messergebnisse – Bemerkungen Measuring results - Remarks	Ergebnis Result
0	<p>Anwendungsbereich/Scope Anwendbar für die Feststellung der Baugleichheit von Produkten im Rahmen der TÜV Rheinland LGA Products GmbH Zertifizierungsschema zur Vergabe des GS Zeichen und privater Zeichen. Feststellung der Baugleichheit von Mustern an Hand der Dokumentation bereits geprüfter und zugelassener Produkte, inklusive physischer Prüfung der Konstruktion und geeigneter Prüfungen der anwendbaren Produktnorm. / <i>Applicable for the determination of type conformity based on the TÜV Rheinland LGA Products GmbH certification scheme granting GS marks and private marks. Construction verification of samples against documentation of previously approved samples, including physical construction check and suitable type approval requirements of the product standard.</i></p>		
1	<p>Produkt Product</p>		
	Zertifikatsnummer <i>Certificate number</i>		-/-
	Produkt <i>Product</i>		-/-
	Produziert am (mm/yyyy) <i>Manufactured at (mm/yyyy)</i>		-/-
	Fertigungsstättennummer <i>Factory number</i>		-/-
	Äußere Erscheinung des Musters stimmt mit der Fotodokumentation überein. <i>Outer appearance of the drawn sample is same as in photo documentation.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Interner Aufbau stimmt mit der Fotodokumentation überein. <i>Internal construction of the drawn sample is same as in photo documentation.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Es wurden nur sicherheitsrelevanten Komponenten verbaut, die im CDF oder Prüfbericht benannt sind. <i>Only safety relevant components as described in CDF or Test Report have been used in the drawn sample.</i>		P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
2	<p>Typenschild Label</p>		
	Das Typenschild entspricht dem zertifizierten Typenschild. <i>The label is same as the certified label.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Der Ausweisinhaber, Importeur oder Bevollmächtigte ist auf dem Typenschild benannt. <i>The license holder, importer or authorized representative is displayed in the label.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Die Adresse (bei GS zwingend eine aus dem EWR) ist auf dem Typenschild benannt. <i>Complete postal address (for GS it must be a European address) is mentioned in the label.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

Prüfbericht-Nr.: CN23SKYS 008

Seite 9 von 11

Test report no.:

Page 9 of 11

Absatz Clause	Anforderungen - Prüfungen Requirements – Tests 2 PFG 2516:2014-11	Messergebnisse – Bemerkungen Measuring results - Remarks	Ergebnis Result
	Bei Fail: in Bedienungsanleitung angegeben <i>If fail: in the user manual</i>	Complete postal address is mentioned in the user manual.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	Bei Fail: auf der Verpackung angegeben <i>if fail: on packaging</i>		P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	Wenn eine CE Markierung notwendig ist, wurde diese auf dem Typenschild in dem richtigen Layout abgebildet. <i>If CE marking is mandatory, it's on the product and complies with the design restrictions.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Wenn ein TÜV Rheinland Zeichen abgebildet ist, entspricht dies den Vorgaben. <i>In event a TUV Mark is displayed it complies with the design restrictions.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
3	Bedienungs-, Installations-, Aufbauanleitung User Manual, Installation - / Assembly Manual		
	Liegt in der richtigen Sprache vor, bei GS zwingend in deutscher Sprache, und entspricht dem zertifizierten. <i>Is available in the correct language (German version a must for GS) and the same as certified one.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Wenn ein TÜV Rheinland Zeichen abgebildet ist, entspricht dies den Vorgaben. <i>In event a TUV Mark is displayed it complies with the design restrictions.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Wenn eine Herstelleradresse angegeben ist, wurde diese komplett (bei GS zwingend eine Adresse im EWR) angegeben und stimmt mit der vom Typenschild überein. <i>If the license holder and/or importer, authorized representative is displayed with address, it's complete (for GS it must be a European address) and correlates with the information on the rating label.</i>		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Wenn die Serviceadresse von der vom Hersteller, Importeur oder Bevollmächtigten abweicht, ist das akzeptabel. <i>If the address for service inquiries differs from manufacturer's, importer's or authorized representative's, it's acceptable.</i>		-/-
4	Verpackung Packaging/Gift box		

Prüfbericht-Nr.: CN23SKYS 008
 Test report no.:

Seite 10 von 11
 Page 10 of 11

Absatz Clause	Anforderungen - Prüfungen Requirements – Tests 2 PFG 2516:2014-11	Messergebnisse – Bemerkungen Measuring results - Remarks	Ergebnis Result
	<p>Wenn ein TÜV Rheinland Zeichen abgebildet ist, entspricht dies den Vorgaben. <i>In event a TUV Mark is displayed it complies with the design restrictions.</i></p>		P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	<p>Der Ausweisinhaber, Importeur und/oder Bevollmächtigte ist mit auf der Verpackung benannt. <i>The license holder, importer and/or authorized representative are displayed with complete address on the packaging.</i></p>		P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	<p>Auf der Verpackung wird das Produkt nicht anders beworben als es die Zertifizierung beschreibt. Z.B. Kinder werden mit der Verpackung explizit angesprochen und aus dem Zertifikat geht hervor, dass es kein Spielzeug ist. <i>Packaging does not imply another use as certified. E.g. the package explicitly addresses but the certificate excludes use by children.</i></p>		P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>

Prüfbericht-Nr.: CN23SKYS 008
 Test report no.:

Seite 11 von 11
 Page 11 of 11

Absatz Clause	Anforderungen - Prüfungen Requirements – Tests 2 PFG 2516:2014-11	Messergebnisse – Bemerkungen Measuring results - Remarks	Ergebnis Result
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Folgend werden die Anforderungen und deren Ergebnis genannt, die als Nachweis für die Produktverifizierung die in der Checkliste benannten Punkte dienen.

Following the requirements and the result, which serve as evidences during product verification checklist:

	Norm/Anforderung Standard/Requirement	Enter requirement	-/-
1	User manual		P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

--End of test report--

CERTIFICATE of Conformity



Registration No.: A3 50604028 0001

Report No.: CN23UB9M 001

Holder: Shenzhen Sinexcel Isuna Energy
Technology Co., Ltd.
Room 301, Building 6,
BaiWangXin High-tech Industrial Park,
Nanshan District, Shenzhen,
518055 Guangdong
P.R. China

Product: PV-Inverter
(Hybrid Inverter) 

Identification: Type Designation : Isuna 3000S Isuna 3600S Isuna 4000S
Isuna 4600S Isuna 5000S Isuna 6000S
Serial Number : A003557590-001
Firmware version : A00
Remark(s) : Refer to report CN23UB9M 001 for details.

Tested acc. to: VDE-AR-N 4105/11.18
DIN VDE V 0124-100/06.20

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Durch die DAKKS nach
DIN EN ISO/IEC 17065:2013
akkreditierte Zertifizierungsstelle.

Certification Body

Date 31.10.2023

Die Akkreditierung gilt nur für den in der
Urkundenanlage D-ZE-14169-01-02
aufgeführten Akkreditierungsumfang.

Tongle Lee



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Shenzhen Sinexcel Isuna Energy
Zhang Qiujie, Engineer

Date : 31.10.2023
Our ref. : HCC 01
Your ref.: Qiujie Zhang

Technology Co., Ltd.
Room 301, Building 6,
BaiWangXin High-tech Industrial
Park,
Nanshan District, Shenzhen,
518055 Guangdong
P.R. China

Ref : A3 Grid Code Certificate

Type of Equipment : Hybrid Inverter
Model Designation : See Certificate
Certificate No. : A3 50604028 0001
Report No. : CN23UB9M 001

Dear Zhang Qiujie,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

Tongle Lee

CC: Shenzhen Sinexcel Isuna Energy

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50602358 0001
Report No.: CN2348HW 001
Holder: Shenzhen Sinexcel Isuna Energy
Technology Co., Ltd.
Room 301, Building 6,
BaiWangXin High-tech Industrial Park,
Nanshan District, Shenzhen,
518055 Guangdong
P.R. China
Product: PV-Inverter
Hybrid Inverter

Type designation listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive (EU) 2014/35, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body



Date: 2023-09-28

A handwritten signature in blue ink, appearing to read 'A. Chen'.

A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EU Directives/Regulations are complied with. CE

CERTIFICATE

of Conformity
Low Voltage Directive (EU) 2014/35

Registration No.: AN 50602358 0001

Product: PV-Inverter
Hybrid Inverter

Identification: Type Designation
Isuna 3000S Isuna 3600S
Isuna 4000S Isuna 4600S
Isuna 5000S Isuna 6000S
Serial Number: Engineering samples
Remark(s) : Refer to the test report
CN2348HW 001 for details.



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EU Directives/Regulations are complied with. CE

CERTIFICATE of Conformity



Registration No.: A3 50623025 0001

Report No.: CN24D99L 001

Holder: Shenzhen Sinexcel Isuna Energy
Technology Co., Ltd.
Room 301, Building 6,
BaiWangXin High-tech Industrial Park,
Nanshan District, Shenzhen,
518055 Guangdong
P.R. China

Product: PV-Inverter
(Hybrid Inverter)

Identification: Type Designation : Isuna 3000S Isuna 3600S Isuna 4000S
Isuna 4600S Isuna 5000S Isuna 6000S
Serial Number : Engineering Samples
Firmware version : V120
Remark(s) : Refer to report CN24D99L 001 for details.

Tested acc. to: EN 50549-1:2019
EN 50549-1:2019+A1

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Date 20.03.2024

Durch die DAKKS nach
DIN EN ISO/IEC 17065:2013
akkreditierte Zertifizierungsstelle
Die Akkreditierung gilt nur für den in der
Urkundenanlage D-ZE-14169-01-02
aufgeführten Akkreditierungsumfang.



Certification Body

Tongle Lee

Tongle Lee

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Certificate No.: A3 50623025 0001

Certificate Of Conformity

License holder: **Shenzhen Sinexcel Isuna Energy Technology Co., Ltd.**
Room 301, Building 6, BaiWangXin High-tech Industrial Park, Nanshan District, Shenzhen City, China

Type of product: Hybrid Inverter

Model: Isuna 3000S, Isuna 3600S, Isuna 4000S,
Isuna 4600S, Isuna 5000S, Isuna 6000S

Firmware version: V120

Standard: **EN 50549-1:2019**
Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution network -Generating plants up to and including Type B
EN 50549-1:2019+A1
Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution

Report No.: CN24D99L 001

Date of issue: 20.03.2024

The verification of conformity refers to the above mentioned product. This is to verify that the specimen is in conformity with the assessment requirement mentioned above. This verification does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.



Tongle Lee
Tongle Lee
Certifier



TÜV Rheinland LGA Products GmbH
Am Grauen Stein 29 · 51105 Köln · Germany



CERTIFICATE

of Conformity EC Council Directive (EU) 2014/30 Electromagnetic Compatibility

Registration No.: AE 50601120 0001
Report No.: CN23V2RJ 001
Holder: Shenzhen Sinexcel Isuna Energy
Technology Co., Ltd.
Room 301, Building 6,
BaiWangXin High-tech Industrial Park,
Nanshan District, Shenzhen,
518055 Guangdong
P.R. China
Product: Energy Storage System
(Hybrid Inverter)

Type designation and serial number are listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive (EU) 2014/30. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Certification Body



Tongle Lee



Date: 2023-09-15

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EU Directives/Regulations are complied with. CE

CERTIFICATE

of Conformity EC Council Directive (EU) 2014/30 Electromagnetic Compatibility

Registration No.: AE 50601120 0001

Product: Energy Storage System
(Hybrid Inverter)

Tested according to: EN IEC 61000-6-1:2019
EN IEC 61000-6-2:2019
EN IEC 61000-6-3:2021
EN IEC 61000-6-4:2019
NRS 097-2-1:2017

Identification: Type Designation
Isuna 3000S, Isuna 3600S, Isuna 4000S,
Isuna 4600S, Isuna 5000S, Isuna 6000S
Serial No.:
n.a.
Remark:
Refer to above-listed test report for details.



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EU Directives/Regulations are complied with. CE

CERTIFICATE

of Conformity

Registration No.: AK 50624406 0001
Report No.: CN24MM8L 001
Holder: Shenzhen Sinexcel Isuna Energy
Technology Co., Ltd.
Room 301, Building 6,
BaiWangXin High-tech Industrial Park,
Nanshan District, Shenzhen,
518055 Guangdong
P.R. China
Product: PV-Inverter
(Hybrid Inverter)

Type designation listed on the next page

The certificate of conformity refers to the above-mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned on the next page. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Date: 2024-03-28

Certification Body



Tongle Lee



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CERTIFICATE

of Conformity

Registration No.: AK 50624406 0001

Product: PV-Inverter
(Hybrid Inverter)

Tested according to: C10/11:2019

Identification: Type Designation
Isuna 3000S, Isuna 3600S, Isuna 4000S,
Isuna 4600S, Isuna 5000S, Isuna 6000S
Firmware Version : V120
Remark : Refer to test report CN24MM8L 001
for details.



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg