

Certificate of Conformity

Reingetragene Nr.:
Registered No.:

COCPVP12091/23E-03

Aktenzeichen
File reference

PVP12091/23E-06

Testbericht Nr.
Test report No.

TRPVP12091/23E/06

Ausstellungsdatum
Date of issue

2024-04-22

Auf der Grundlage der durchgeführten Prüfungen wurde festgestellt, dass die Muster des/der folgenden Produkte(s) zum Zeitpunkt der Durchführung der Prüfungen die wesentlichen Anforderungen der genannten Spezifikationen erfüllten:

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Antragsteller:
Applicant: **NINGBO AUSTA SOLAR TECH CO., LTD.**
1-1, NO.136, Haichuan Road, Jiangbei District, Ningbo, Zhejiang, P.R.
China

Hersteller:
Manufacturer: **NINGBO AUSTA SOLAR TECH CO., LTD.**
1-1, NO.136, Haichuan Road, Jiangbei District, Ningbo, Zhejiang, P.R.
China

Fertigungsstätte:
Factory: Coded by debtor no. 0055601212

Produkt:
Product: Netzgekoppelter Solarwechselrichter
Grid Tie Solar Inverter

Typenbezeichnung:
Type designation: AU3K1P, AU4K1P, AU5K1P,
AU6K1P, AU8K1P, AU10K1P

Zertifizierungsprogramm:
Certification program: BOS-P-01 Rev. 00

Zertifizierungsgrundlage(n):
Certification fundamental(s): DIN VDE V 0124-100:2020-06
VDE-AR-N 4105:2018

Detaillierte Informationen finden Sie im Testbericht.
See test report for detailed information.

Dieses Dokument basiert auf der Auswertung der Proben der oben genannten Produkte. Sie stellt keine Bewertung der Massenproduktion des/der Produkte(s) dar und erlaubt nicht die Verwendung eines TÜV NORD-Zeichens. Der Inhaber dieses Dokuments darf es in Verbindung mit dem/den zugehörigen Prüfbericht(en) verwenden.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not



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imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).

A handwritten signature in blue ink, appearing to read "J. Kumpflemer".

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E.4 Einheitenzertifikat E.4 Unit certificate		
Hersteller: Manufacturer:	NINGBO AUSTA SOLAR TECH CO., LTD. 1-1, NO.136, Haichuan Road, Jiangbei District, Ningbo, Zhejiang, P.R. China	
Typ Erzeugungseinheit: Power generation unit type:	AU3K1P, AU4K1P, AU5K1P, AU6K1P, AU8K1P, AU10K1P	
	<input checked="" type="checkbox"/> Umrichter Inverter <input type="checkbox"/> Asynchrongenerator Asynchronous generator <input type="checkbox"/> Synchrongenerator Synchronous generator <input type="checkbox"/> Stirlinggenerator Stirling generator <input type="checkbox"/> Brennstoffzelle Fuel cell <input type="checkbox"/> andere: _____ Other: _____	
Modell: Model:	AU5K1P, AU6K1P, AU8K1P, AU10K1P	
Bemessungswerte: Assessment values:	Max. Scheinleistung $S_{E_{max}}$: Max. apparent power $S_{E_{max}}$:	4582.0VA*
	Bemessungsspannung: Rated voltage:	220V/230V
Bemessungswerte: Rated values:	Bemessungsstrom (AC) I_r : Rated current (AC) I_r :	20.0A*
	Anfangs-Kurzschlusswechselstrom: Initial short-circuit AC current:	30.0A
Modell: Model:	AU4K1P	
Bemessungswerte: Assessment values:	Max. Scheinleistung $S_{E_{max}}$: Max. apparent power $S_{E_{max}}$:	4399.4VA



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	Bemessungsspannung: <i>Rated voltage:</i>	220V/230V
Bemessungswerte: <i>Rated values:</i>	Bemessungsstrom (AC) I_r : <i>Rated current (AC) I_r:</i>	17.4A
	Anfangs-Kurzschlusswechselstrom: <i>Initial short-circuit AC current:</i>	26.1A
Modell: <i>Model:</i>	AU3K1P	
Bemessungswerte: <i>Assessment values:</i>	Max. Scheinleistung S_{Emax} : <i>Max. apparent power S_{Emax}:</i>	3331.7VA
	Bemessungsspannung: <i>Rated voltage:</i>	220V/230V
Bemessungswerte: <i>Rated values:</i>	Bemessungsstrom (AC) I_r : <i>Rated current (AC) I_r:</i>	13.0A
	Anfangs-Kurzschlusswechselstrom: <i>Initial short-circuit AC current:</i>	19.5A
Netzanschlussregel: <i>Network connection rule:</i>	<p>VDE-AR-N 4105:2018 "Erzeugungsanlagen am Niederspannungsnetz" <i>VDE-AR-N 4105:2018 "Generators connected to the low-voltage distribution network"</i></p> <p>Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen mit Anschluss an das Niederspannungsnetz. <i>Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network.</i></p>	
Prüfanforderung: <i>Test requirement:</i>	<p>DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Netzintegration von Erzeugungsanlagen - Niederspannung" <i>DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Network integration of power generation systems - Low voltage"</i></p> <p>Prüfanforderungen für Erzeugungseinheiten zum Anschluss und Parallelbetrieb am Niederspannungsnetz <i>Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network</i></p>	
Prüfbericht: <i>Test report:</i>	<p>TRPVP12091/23E/06 ausgestellt am 2024-04-19 <i>TRPVP12091/23E/06 issued on 2024-04-19</i></p>	
<p>Die oben bezeichnete Erzeugungseinheit erfüllt die Anforderungen der VDE-AR-N 4105. <i>The above designated power generation unit meets the requirements of VDE-AR-N 4105.</i></p>		



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Dieser Anteilschein darf nicht auszugsweise verwendet werden.

This unit certificate shall not be used in extracts.

**: The output power is limited to 4.6kVA for Germany*



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E.5 Prüfbericht "Netzrückwirkungen" für Erzeugungseinheiten mit einem Eingangsstrom > 75 A E.5 Test report "Network interactions" for power generation units with an input current > 75 A				
Systemhersteller: System manufacturer:	NINGBO AUSTA SOLAR TECH CO., LTD. 1-1, NO.136, Haichuan Road, Jiangbei District, Ningbo, Zhejiang, P.R. China			
Herstellerangaben: Manufacturer indications:	Anlagentyp (BHKW, PV-WR, ...): System type (BHKW, PV-WR, ...):		Netzgekoppelter Solarwechselrichter Grid Tie Solar Inverter	
	Modell: Model:	AU3K1P	AU4K1P	AU5K1P, AU6K1P, AU8K1P, AU10K1P
	Max. Wirkleistung $P_{E_{max}}$: Max. active power $P_{E_{max}}$:	3300W	4400W	4600W
	Bemessungsspannung Rated voltage	220/230V		
Messzeitraum: Measurement period:	N/A			
Schnelle Spannungsänderungen Rapid voltage changes				
Model: AU10K1P				
Einschalten ohne Vorgabe (zum Primärenergieträger): Connection without provisions (regarding the primary energy carrier):			$k_i = 0.43$	
Ungünstigster Fall beim Umschalten der Generatorstufen: Most adverse case when switching between generator levels:			N/A	
Einschalten bei Nennbedingungen (des Primärenergieträgers): Connection at nominal conditions (of the primary energy carrier):			$k_i = 0.42$	
Ausschalten bei Bemessungsleistung: Disconnection at rated power:			$k_i = 0.10$	
Schlechtester Wert aller Schaltvorgänge: Worst value of all switching operations:			$K_{imax} = 0.43$	
Model: AU10K1P				

Flicker: Flicker:	Netzimpedanzwinkel Ψ_k <i>Network impedance angle Ψ_k</i>	32°
	Anlagenflickerbeiwert c_ψ <i>Initial flicker factor c_ψ</i>	7.48



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Oberschwingungen Harmonics AU10K1P											
P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Ordnung Order	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]
2	0.024	0.048	0.095	0.142	0.190	0.239	0.286	0.333	0.381	0.302	0.340
3	0.004	0.009	0.016	0.026	0.033	0.041	0.048	0.055	0.063	0.091	0.096
4	0.015	0.030	0.062	0.091	0.122	0.152	0.182	0.215	0.247	0.198	0.222
5	0.224	0.449	0.897	1.344	1.793	2.248	2.695	3.141	3.617	3.384	3.788
6	0.009	0.018	0.036	0.053	0.071	0.089	0.106	0.123	0.141	0.120	0.132
7	0.131	0.261	0.522	0.782	1.043	1.308	1.568	1.827	2.100	2.230	2.497
8	0.006	0.012	0.024	0.037	0.049	0.062	0.074	0.086	0.096	0.091	0.103
9	0.006	0.013	0.025	0.038	0.050	0.063	0.076	0.089	0.104	0.067	0.075
10	0.009	0.018	0.037	0.055	0.074	0.093	0.111	0.128	0.148	0.150	0.170
11	0.027	0.053	0.106	0.159	0.211	0.265	0.315	0.368	0.413	0.883	0.991
12	0.002	0.004	0.008	0.012	0.017	0.021	0.025	0.030	0.036	0.043	0.049
13	0.008	0.016	0.032	0.048	0.063	0.080	0.094	0.109	0.116	0.565	0.635
14	0.006	0.012	0.024	0.036	0.048	0.059	0.071	0.084	0.096	0.074	0.083
15	0.004	0.007	0.015	0.022	0.029	0.037	0.044	0.050	0.058	0.065	0.071
16	0.003	0.006	0.013	0.020	0.026	0.034	0.041	0.047	0.053	0.087	0.097
17	0.025	0.050	0.100	0.149	0.199	0.250	0.300	0.350	0.410	0.031	0.036
18	0.003	0.007	0.014	0.020	0.027	0.034	0.042	0.048	0.056	0.023	0.026
19	0.028	0.057	0.114	0.171	0.228	0.285	0.344	0.401	0.466	0.059	0.066
20	0.002	0.004	0.008	0.012	0.016	0.020	0.024	0.027	0.032	0.039	0.044
21	0.003	0.007	0.013	0.020	0.026	0.034	0.041	0.048	0.056	0.018	0.021
22	0.003	0.006	0.012	0.017	0.023	0.029	0.035	0.042	0.048	0.014	0.016
23	0.024	0.049	0.098	0.146	0.195	0.245	0.294	0.342	0.395	0.181	0.202
24	0.003	0.005	0.010	0.015	0.020	0.026	0.030	0.035	0.039	0.021	0.023



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25	0.022	0.044	0.088	0.131	0.175	0.220	0.263	0.307	0.352	0.221	0.247
26	0.001	0.001	0.002	0.004	0.005	0.006	0.007	0.009	0.011	0.025	0.028
27	0.002	0.004	0.009	0.013	0.017	0.022	0.026	0.032	0.036	0.026	0.028
28	0.003	0.005	0.010	0.015	0.020	0.026	0.031	0.036	0.042	0.019	0.022
29	0.013	0.027	0.054	0.080	0.107	0.135	0.161	0.188	0.215	0.174	0.194
30	0.001	0.003	0.006	0.008	0.011	0.014	0.016	0.019	0.021	0.023	0.026
31	0.011	0.023	0.045	0.068	0.091	0.114	0.136	0.159	0.180	0.191	0.214
32	0.002	0.003	0.007	0.010	0.014	0.017	0.021	0.025	0.029	0.008	0.009
33	0.001	0.003	0.005	0.008	0.011	0.014	0.016	0.019	0.021	0.019	0.021
34	0.001	0.003	0.006	0.009	0.012	0.015	0.018	0.021	0.024	0.021	0.024
35	0.003	0.006	0.013	0.019	0.025	0.031	0.037	0.043	0.047	0.110	0.123
36	0.001	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.016	0.017
37	0.002	0.003	0.006	0.009	0.013	0.016	0.018	0.021	0.023	0.109	0.123
38	0.002	0.003	0.006	0.010	0.013	0.016	0.020	0.022	0.026	0.009	0.010
39	0.001	0.002	0.003	0.005	0.006	0.008	0.010	0.011	0.014	0.014	0.016
40	0.001	0.002	0.003	0.005	0.006	0.008	0.009	0.011	0.013	0.023	0.025

Zwischenharmonische
Inter-harmonics

P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Freq. [Hz]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]
75	0.006	0.010	0.024	0.034	0.041	0.041	0.032	0.038	0.043	0.050	0.052
125	0.005	0.009	0.020	0.029	0.036	0.037	0.031	0.036	0.041	0.048	0.051
175	0.004	0.007	0.016	0.023	0.029	0.033	0.031	0.037	0.041	0.049	0.053
225	0.004	0.007	0.014	0.021	0.027	0.030	0.028	0.033	0.037	0.042	0.047
275	0.003	0.006	0.012	0.017	0.023	0.028	0.033	0.038	0.045	0.050	0.056
325	0.003	0.006	0.011	0.017	0.023	0.028	0.033	0.038	0.044	0.050	0.055
375	0.002	0.005	0.010	0.015	0.020	0.025	0.029	0.034	0.040	0.043	0.049
425	0.003	0.005	0.011	0.016	0.022	0.027	0.032	0.037	0.042	0.048	0.053



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475	0.003	0.005	0.011	0.016	0.022	0.028	0.033	0.038	0.043	0.049	0.054
525	0.002	0.005	0.009	0.014	0.018	0.023	0.027	0.031	0.036	0.042	0.045
575	0.003	0.005	0.011	0.017	0.022	0.028	0.033	0.038	0.043	0.050	0.054
625	0.003	0.005	0.011	0.016	0.022	0.027	0.032	0.038	0.043	0.051	0.054
675	0.002	0.005	0.009	0.014	0.018	0.023	0.027	0.031	0.035	0.041	0.045
725	0.003	0.005	0.010	0.015	0.020	0.026	0.031	0.036	0.041	0.046	0.051
775	0.002	0.005	0.010	0.015	0.019	0.024	0.029	0.033	0.038	0.043	0.047
825	0.002	0.004	0.008	0.013	0.017	0.021	0.025	0.029	0.034	0.039	0.042
875	0.002	0.005	0.009	0.014	0.019	0.023	0.027	0.032	0.037	0.043	0.046
925	0.002	0.005	0.009	0.014	0.018	0.023	0.027	0.032	0.037	0.042	0.047
975	0.002	0.004	0.007	0.011	0.015	0.018	0.021	0.025	0.029	0.033	0.036
1025	0.002	0.004	0.008	0.013	0.017	0.021	0.025	0.029	0.033	0.039	0.041
1075	0.002	0.004	0.008	0.012	0.016	0.020	0.023	0.026	0.030	0.035	0.038
1125	0.002	0.004	0.007	0.011	0.015	0.019	0.022	0.026	0.029	0.033	0.036
1175	0.002	0.003	0.006	0.010	0.013	0.016	0.019	0.022	0.025	0.029	0.032
1225	0.002	0.004	0.007	0.010	0.014	0.017	0.021	0.024	0.028	0.031	0.035
1275	0.001	0.003	0.006	0.008	0.011	0.014	0.016	0.019	0.022	0.025	0.027
1325	0.002	0.003	0.006	0.009	0.012	0.016	0.019	0.022	0.025	0.028	0.031
1375	0.001	0.003	0.006	0.009	0.012	0.014	0.017	0.020	0.023	0.027	0.029
1425	0.001	0.003	0.006	0.009	0.012	0.014	0.017	0.020	0.023	0.026	0.028
1475	0.001	0.002	0.004	0.007	0.009	0.011	0.013	0.015	0.018	0.020	0.022
1525	0.002	0.003	0.007	0.010	0.013	0.017	0.020	0.023	0.026	0.029	0.033
1575	0.001	0.002	0.004	0.006	0.008	0.010	0.012	0.014	0.016	0.018	0.020
1625	0.001	0.002	0.005	0.007	0.009	0.012	0.014	0.016	0.018	0.021	0.023
1675	0.001	0.002	0.004	0.006	0.008	0.010	0.013	0.014	0.016	0.019	0.020
1725	0.002	0.003	0.006	0.009	0.012	0.015	0.018	0.021	0.024	0.028	0.030
1775	0.001	0.002	0.004	0.006	0.008	0.010	0.012	0.013	0.015	0.017	0.019
1825	0.002	0.004	0.008	0.012	0.016	0.019	0.023	0.027	0.031	0.036	0.040
1875	0.001	0.002	0.003	0.005	0.006	0.008	0.009	0.011	0.012	0.014	0.016



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1925	0.001	0.002	0.004	0.006	0.008	0.010	0.012	0.014	0.016	0.019	0.020
1975	0.001	0.002	0.004	0.005	0.007	0.009	0.011	0.012	0.014	0.017	0.018
Höhere Frequenzen											
Higher frequencies											
P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Freq. [kHz]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]
2.1	0.005	0.010	0.020	0.030	0.040	0.050	0.060	0.070	0.080	0.094	0.100
2.3	0.003	0.007	0.014	0.020	0.027	0.034	0.041	0.047	0.054	0.062	0.067
2.5	0.011	0.022	0.044	0.065	0.087	0.109	0.130	0.152	0.174	0.197	0.218
2.7	0.004	0.008	0.017	0.025	0.033	0.041	0.050	0.058	0.066	0.074	0.083
2.9	0.003	0.005	0.010	0.016	0.021	0.026	0.031	0.036	0.042	0.046	0.052
3.1	0.003	0.005	0.011	0.016	0.021	0.027	0.032	0.038	0.043	0.048	0.054
3.3	0.002	0.004	0.007	0.010	0.014	0.017	0.021	0.024	0.028	0.032	0.034
3.5	0.002	0.004	0.008	0.012	0.015	0.019	0.023	0.027	0.031	0.037	0.039
3.7	0.002	0.005	0.010	0.014	0.019	0.024	0.029	0.034	0.039	0.046	0.049
3.9	0.002	0.005	0.009	0.014	0.019	0.024	0.028	0.033	0.038	0.043	0.048
4.1	0.001	0.003	0.006	0.009	0.011	0.014	0.017	0.020	0.023	0.026	0.028
4.3	0.001	0.003	0.006	0.008	0.011	0.014	0.016	0.019	0.022	0.024	0.027
4.5	0.001	0.003	0.005	0.008	0.010	0.013	0.016	0.018	0.021	0.024	0.026
4.7	0.001	0.003	0.006	0.009	0.011	0.014	0.017	0.020	0.023	0.027	0.028
4.9	0.002	0.003	0.006	0.009	0.012	0.015	0.018	0.021	0.024	0.027	0.030
5.1	0.002	0.004	0.007	0.011	0.014	0.018	0.021	0.025	0.029	0.032	0.036
5.3	0.001	0.003	0.005	0.008	0.011	0.013	0.016	0.018	0.021	0.023	0.026
5.5	0.001	0.003	0.005	0.008	0.011	0.013	0.016	0.018	0.021	0.023	0.026
5.7	0.001	0.003	0.005	0.008	0.010	0.013	0.016	0.018	0.021	0.025	0.026
5.9	0.001	0.003	0.006	0.008	0.011	0.014	0.017	0.019	0.022	0.025	0.027
6.1	0.001	0.003	0.006	0.009	0.012	0.015	0.018	0.020	0.023	0.026	0.029
6.3	0.004	0.007	0.014	0.021	0.028	0.036	0.043	0.050	0.057	0.063	0.070



Renewable Energy

BOS&ESS-T-008 COC



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6.5	0.003	0.005	0.010	0.016	0.021	0.026	0.031	0.036	0.042	0.046	0.052
6.7	0.001	0.002	0.005	0.007	0.009	0.012	0.014	0.016	0.018	0.020	0.023
6.9	0.001	0.003	0.005	0.007	0.010	0.012	0.015	0.017	0.020	0.023	0.025
7.1	0.001	0.003	0.005	0.007	0.010	0.012	0.015	0.017	0.019	0.021	0.024
7.3	0.001	0.003	0.005	0.008	0.010	0.013	0.015	0.018	0.021	0.023	0.025
7.5	0.001	0.003	0.005	0.008	0.010	0.013	0.015	0.018	0.021	0.022	0.025
7.7	0.001	0.002	0.005	0.007	0.009	0.012	0.014	0.016	0.019	0.020	0.023
7.9	0.002	0.004	0.007	0.011	0.014	0.018	0.022	0.026	0.030	0.032	0.037
8.1	0.002	0.003	0.006	0.010	0.013	0.016	0.019	0.022	0.026	0.029	0.032
8.3	0.001	0.002	0.005	0.007	0.009	0.011	0.014	0.016	0.019	0.021	0.023
8.5	0.001	0.002	0.005	0.007	0.009	0.012	0.014	0.016	0.019	0.021	0.023
8.7	0.001	0.002	0.005	0.007	0.009	0.012	0.014	0.016	0.018	0.020	0.022
8.9	0.001	0.002	0.005	0.007	0.009	0.050	0.014	0.016	0.019	0.020	0.023

Hinweis: Der Normalisierungsstrom beträgt 20A.

Note: The normalization current is 20A.



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