

Unit Certificate / Einheitenzertifikat



Certificate holder / Inhaber des Zertifikats

Anker Innovations Limited

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Date of Original Issue/ Datum der ursprünglichen Ausgabe : 2024-04-19
Date of Last Revision / Datum der letzten Überarbeitung : --
Date of Expiry / Verfallsdatum : 2027-04-18
Certificate number / Zertifikatsnummer : PCS-24-1041
Brand / Trademark / Warenzeichen : ANKER



It is certified that the product / Es ist zertifiziert, dass das Produkt

Models / Modelle : A17C1, A17C3
Type of generator / Generatortyp : Energy Storage System
Technical Data / Technische Daten : See page 3
Test Laboratory / Testlabor : SGS-CSTC Standards Technical Services Co., Ltd. Suzhou Branch
Test Report (s) / Testbericht(e) : SUEE240400004251
Test Standard(s) / Prüfnorm(en) : VDE-AR-N 4105:2018-11 + Correction 1:2020

Is in compliance with the Network connection rule / In Übereinstimmung mit der Anwendungsregel:

VDE-AR-N-4105:2018-11 + Correction 1:2020-10 "Generators connected to the low-voltage distribution network / Erzeugungsanlagen am Niederspannungsnetz" Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network / Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen am Niederspannungsnetz

Based on tests requirements defined in / Basierend auf Tests Anforderungen definiert in:

VDE V 0124-100: 2020-06 "Network integration of power generation systems – Low voltage / Netzintegration von Erzeugungsanlagen" Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network / Niederspannung – Prüfanforderungen an Erzeugungseinheiten, vorgesehen zum Anschluss und Parallelbetrieb am Niederspannungsnetz

This is to certify that the product has been tested and was found to comply with the requirements of the standard(s). / Hiermit wird bescheinigt, dass das Produkt getestet wurde und den Anforderungen der Norm(en) entspricht.

The above-mentioned product is certified according to the requirements of ISO/IEC 17065:2012. / Das oben genannte Produkt ist gemäß den Anforderungen der ISO/IEC 17065:2012 zertifiziert.

Christopher Hee
Certification Officer

SGS Testing & Control Services Singapore Pte Ltd
30 Boon Lay Way #03-01 Singapore 609957



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APPENDIX(ANHANG)

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E.5 Requirements for the test report for power generation units E.5 Prüfbericht „Netzrückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A (*)												
Extract from test report for unit certificate "Determination of electrical properties" Auszug aus dem Prüfbericht für Erzeugungseinheiten Bestimmung der elektrischen Eigenschaften"											No. SUEE240400004251	
System Manufacturer Anlagenhersteller:						Anker Innovations Limited						
Manufacturer indications: Herstellerangaben:						Type of system: Anlagenart:			Energy Storage System			
						Max. active power P_Emax max. Wirkleistung P _E max			A17C1			
						Rated voltage: Bemessungsspannung			0.8kW			
Measuring period: 2024-02-28 to 2024-04-03												
Flicker		Network impedance angle ψ_k Netzimpedanzwinkel ψ_k						32°				
		Initial flicker factor C_f Anlagenflickerbeiwert C _f						33%P _n		66%P _n		100%P _n
								3.19		5.63		5.63
Model: A17C1												
Harmonics Single-Phase Oberschwingungen												
Active power P/P _n [%] Wirkleistung P/P _n [%]		0	10	20	30	40	50	60	70	80	90	100
Ordinal number Ordnungszahl		I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)
2		0.013	0.013	0.014	0.013	0.013	0.013	0.013	0.012	0.011	0.010	0.008
3		0.059	0.059	0.059	0.066	0.072	0.081	0.090	0.099	0.107	0.116	0.124
4		0.009	0.011	0.009	0.009	0.009	0.008	0.007	0.008	0.008	0.007	0.006
...												
40		0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

(*) the inverter outputs a current <75 A, thus Inter-harmonics and High Frequencies are not evaluated in accordance with the standard



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Full list of product references and nominal characteristics / Vollständige Liste der Produktreferenzen und nominalen Merkmale:

Model	A17C1	A17C3
PV Input		
Max. input voltage	60 Vdc	
MPPT operating voltage range	16-60 Vdc	
Max. input current	16 *4 A	16 *2 A
Battery Input		
Battery rated voltage	16 V dc	
Battery Max. charge & discharge current	75 A	
Battery rated power	1000W	
AC Output		
Nominal grid voltage	L/N/PE, 230 Vac	
Nominal grid frequency	50 Hz	
Rated AC power	800 W	
Max. AC apparent power	800 VA	
Max. AC current	3.5 A	
Output power factor	1 default (adjustable+/-0.8)	
AC Output (Back-up)		
Nominal grid voltage	L/N/PE, 230 Vac	/
Nominal grid frequency	50Hz	/
Rated AC power	1000W	/
Max. AC apparent power	1000VA	/
Max. AC current	4.4 A	/
Output power factor	1 default (adjustable+/-0.8)	/
General Data		
Operating temperature range	-20 °C ~ +55 °C	
Protection degree	IP65	
Protective class	Class I	
Cooling method	Natural Cooling	
Topology	Isolated	

