

Unit Certificate / Einheitenzertifikat



Certificate holder / Inhaber des Zertifikats

Anker Innovations Limited

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Date of Original Issue/ Datum der ursprünglichen Ausgabe : 2024-10-29

Date of Last Revision / Datum der letzten Überarbeitung : --

Date of Expiry / Verfallsdatum : 2027-10-28

Certificate number / Zertifikatsnummer : PCS-24-1154

Brand / Trademark / Warenzeichen : ANKER



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

Models / Modelle : A17C2, A17C6

Type of generator / Generatortyp : Energy Storage System

Technical Data / Technische Daten : See appendix on page 3

Test Laboratory / Testlabor : SGS-CSTC Standards Technical Services Co., Ltd. Suzhou
Branch

Test Report (s) / Testbericht(e) : SUEE241000010851

Test Standard(s) / Prüfnorm(en) : VDE-AR-N 4105:2018-11 + Correction 1:2020

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

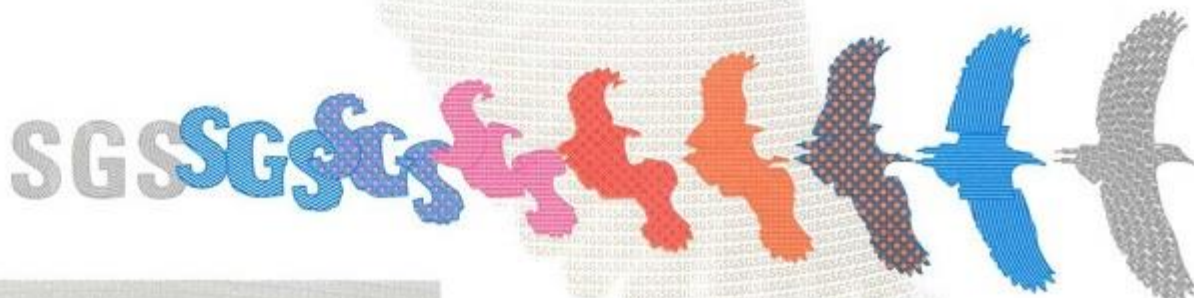


APPENDIX(ANHANG)

Certificate number / Zertifikatsnummer: PCS-24-1154

E.5 Requirements for the test report for power generation units E.5 Prüfbericht „Netzurückwirkungen“ 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. SUEE241000010851	
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		A17C6						
						1.2 kW						
				Rated voltage: Bemessungsspannung		L/N/PE, 230 Vac						
Measuring period: 12 th August 2024 to 10 th September 2024												
Flicker		Network impedance angle ψ_k Netzimpedanzwinkel ψ_k					32°					
		Initial flicker factor C_p Anlagenflickerbeiwert C _p					33%P _n		66%P _n		100%P _n	
							2.25		3.25		3.25	
Model: A17C6												
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(A)	I(A)	I(A)	I(A)	I(A)	I(A)	I(A)	I(A)	I(A)	I(A)	I(A)
2		0.036	0.044	0.037	0.024	0.015	0.012	0.010	0.012	0.016	0.019	0.025
3		0.081	0.094	0.072	0.063	0.060	0.064	0.073	0.065	0.078	0.091	0.105
4		0.014	0.014	0.019	0.024	0.025	0.023	0.019	0.013	0.012	0.010	0.012
...												
40		0.015	0.007	0.011	0.015	0.015	0.014	0.007	0.023	0.008	0.027	0.029

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



APPENDIX(ANHANG)



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

Model	A17C6	A17C2
PV Input		
Max. input voltage	60 Vdc	
MPPT operating voltage range	16-60 Vdc	
Max. input current	16 A/16 A	
Battery Input		
Battery rated voltage	16 V dc	
Battery Max. 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	1200W	800W
Max. AC current	5.22	3.5
Output power factor	1 default (adjustable+/-0.8)	
AC Output (Back-up)		
Nominal grid voltage	L/N/PE, 230 Vac	L/N/PE, 230 Vac
Nominal grid frequency	50Hz	50Hz
Rated AC power	2000W	2000W
Max. AC apparent power	2000W	2000W
Max. AC current	10 A	10 A
Output power factor	1 default (adjustable+/-0.8)	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	



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