

# 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  
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## APPENDIX(ANHANG)

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E.5 Requirements for the test report for power generation units E.5 Prüfbericht „Netzurückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A (*)												
<b>Extract from test report for unit certificate</b> "Determination of electrical properties" Auszug aus dem Prüfbericht für Erzeugungseinheiten Bestimmung der elektrischen Eigenschaften"											<b>No. SUEE241000010851</b>	
<b>System Manufacturer</b> Anlagenhersteller:					Anker Innovations Limited							
<b>Manufacturer indications:</b> Herstellerangaben:					<b>Type of system:</b> Anlagenart:			Energy Storage System				
					<b>Max. active power P<sub>E</sub>max</b> max. Wirkleistung P <sub>E</sub> max			A17C6				
								1.2 kW				
					<b>Rated voltage:</b> Bemessungsspannung			L/N/PE, 230 Vac				
<b>Measuring period:</b> 12 <sup>th</sup> August 2024 to 10 <sup>th</sup> September 2024												
<b>Flicker</b>		<b>Network impedance angle <math>\psi_k</math></b> Netzimpedanzwinkel $\psi_k$					32°					
		<b>Initial flicker factor C<sub>p</sub></b> Anlagenflickerbeiwert C <sub>p</sub>					33%P <sub>n</sub>	66%P <sub>n</sub>	100%P <sub>n</sub>			
							2.25	3.25	3.25			
Model: A17C6												
<b>Harmonics Single-Phase</b> Oberschwingungen												
Active power P/P <sub>n</sub> [%] Wirkleistung P/P <sub>n</sub> [%]	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)	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
<b>PV Input</b>		
Max. input voltage	60 Vdc	
MPPT operating voltage range	16-60 Vdc	
Max. input current	16 A/16 A	
<b>Battery Input</b>		
Battery rated voltage	16 V dc	
Battery Max. current	75 A	
Battery rated power	1000W	
<b>AC Output</b>		
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)	
<b>AC Output (Back-up)</b>		
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)
<b>General Data</b>		
Operating temperature range	-20 °C ~ +55 °C	
Protection degree	IP65	
Protective class	Class I	
Cooling method	Natural Cooling	
Topology	Isolated	



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