

Unit Certificate / Einheitenzertifikat



Certificate holder / Inhaber des Zertifikats

Jackery Technology GmbH
Adlerstraße 72, 40211 Düsseldorf Germany

Date of Original Issue / Datum der ursprünglichen Ausgabe : 2025-04-18
Date of Last Revision / Datum der letzten Überarbeitung : --
Date of Expiry / Verfallsdatum : 2028-04-17
Certificate number / Zertifikatsnummer : PCS-25-1080
Brand / Trademark / Warenzeichen : **Jackery**



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

Models / Modelle : JAKS-IN1K5-BA2K-EUA1, JAKS-IN1K5-BA2K-EUA2, JAKS-IN1K5-BA2K-EUA3, JAKS-IN1K5-BA2K-EUA4
Type of generator / Generatortyp : Hybrid Inverter
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) : SUEE250200005551
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 „Netrückwirkungen“ 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. SUEE250200005551			
System Manufacturer Anlagenhersteller:						Shenzhen Hello Tech Energy Co., Ltd.							
Manufacturer indications: Herstellerangaben:						Type of system: Anlagenart:		Hybrid inverter					
						Max. active power PEmax max. Wirkleistung PEmax		JAKS-IN1K5-BA2K-EUA2					
								800 W					
						Rated voltage: Bemessungsspannung		L/N/PE, 230 Vac					
Measuring period: 14 th Jan. 2025 to 4 th Mar. 2025													
Flicker		Network impedance angle ψ_k Netzimpedanzwinkel ψ_k						32°					
		Initial flicker factor C_f Anlagenflickerbeiwert C _f						33%Pn		66%Pn		100%Pn	
								5.48		5.46		5.46	
Model: JAKS-IN1K5-BA2K-EUA2													
Harmonics Single-Phase Oberschwingungen													
Active power P/Pn [%] Wirkleistung P/Pn [%]	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	0.110	0.122	0.024	0.026	0.028	0.028	0.029	0.030	0.030	0.030	0.031		
3	0.019	0.010	0.013	0.010	0.012	0.019	0.023	0.027	0.029	0.031	0.032		
4	0.038	0.042	0.011	0.012	0.013	0.014	0.015	0.015	0.014	0.014	0.015		
...													
40	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		

(*) 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	JAKS-IN1K5-BA2K-EUA1	JAKS-IN1K5-BA2K-EUA2	JAKS-IN1K5-BA2K-EUA3	JAKS-IN1K5-BA2K-EUA4
PV Input				
Max. Input Power	1000W * 2			
Max. Input Voltage	60Vdc			
Max. Input Current (on-grid / off-grid)	26A * 2 / 20 A * 2			
Max. Short Current	32A * 2			
Operation Voltage Rang	11 - 60Vdc			
AC Input / Output (On-Grid Terminal)				
Max. AC Input Apparent Power	2300VA		2100VA	
Max. AC Input Power	2300W		2100W	
Max. AC Input Current	10A		10A	
Max. AC Output Apparent Power	800VA		600VA	
Max. AC Output Power	800W		600W	
Max. AC Output Current	3.5A		2.6A	
Grid Voltage	L+N+PE, 220Va.c./230Va.c., 50Hz/60Hz			
Power Factor Range	0.8 leading to 0.8 lagging			
AC Input / Output (Off-Grid Terminal)				
Max. AC Input Apparent Power	800VA		600VA	
Max. AC Input Power	800W		600W	
Max. AC Input Current	3.5A		2.6A	
Max. AC Output Apparent Power	1500VA		1500VA	
Max. AC Output Power	1500W		1500W	
Max. AC Output Current	6.5A		6.5A	
Grid Voltage	220Va.c./230Va.c., 50Hz/60Hz			
Power Factor Range	0.8 leading to 0.8 lagging			
Bypass mode AC Input/Output				
Voltage	220Va.c./230Va.c., 50Hz/60Hz			
Bypass Mode AC Input	1500VA			
Bypass Mode AC Output	1500VA			
DC Output				
Max. DC Output Current	/	10A	/	10A
DC Output Voltage Range	/	46.4 - 58.4Vd.c.	/	46.4 - 58.4Vd.c.
Battery				
Battery type	Lithium Iron Phosphate			
Battery Rated Voltage	51.2Vdc			
Battery voltage range	46.4 - 58.4 Vdc			
Max. Charge/Discharge Current	40A / 40A			
IEC Code	IFpR41/136[2P16S]M/-20+50/90			
Total/Rated Energy	2048Wh / 1945Wh			
Total/Rated Capacity	40Ah / 38Ah			
General Data				
Operating temperature range	-20 °C ~ +55 °C			
Protection degree	IP65			
Protective class	Class I			
Weight	26.4kg			
Inverter Topology	Isolation			
Cooling group	Natural Cooling			



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