

TEST REPORT EN 18031-1:2024 TUV SUD Test Report for Common security requirements for radio equipment - Part 1: Internet connected radio equipment			
Report No.:	705332507301-01		
Date of issue:	September 22 nd , 2025		
Project handler:	Li, Nathan		
Testing laboratory:	TÜV SÜD Certification and Testing (China) Co., Ltd.		
Address:	Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi 214101, P.R.China		
Testing location:	as above		
Client:	Anker Innovations Limited		
Client number:	127148		
Address:	Unit 56, 8 th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong		
Standard:	This TUV SUD test report form is based on the following requirements: EN 18031-1:2024		
TRF number and revision:	TRF EN 18031-1:2024 Rev.02:2025		
Copyright blank test report:	© TUV SUD Group - All rights reserved This test report may only be quoted in full. Any use for advertising purposes must be granted in writing.		
General disclaimer:	This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service. TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.		
Scheme:	<input type="checkbox"/> TUV Mark <input type="checkbox"/> without certification <input checked="" type="checkbox"/> AoC/CoC for EU-Directive / EU-Regulation: <input type="checkbox"/> other:		
Non-standard test method:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, see details under <i>Summary of testing</i>		
National deviations:	N/A		
Number of pages (Report):	7		
Compiled by:	Li, Nathan	Approved by:	Gao, Aijin
(+ signature)		(+ signature)	 

Report No.: 705332507301-01

Test sample: Type of test object: Trademark:	Pre-production Anker SOLIX V1 Smart EV Charger Anker Solix ANKER SOLIX
Model and/ or type reference:	Representative model: A5191GZ2 A5191VZ0,A5191VZ1, A5191GZ2,A5191GZ3, A51913Z0,A51913Z1, A5191TZ1,A5191TZ2, A5191VZ2,A5191VZ3, A5191GZ4,A5191GZ7
Rating(s):	N/A
Manufacturer: Manufacturer number: Address:	Anker Innovations Limited 127148 Unit 56, 8 th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Name and address of factory(ies) Legal Name: ZHUZHOU ZOPOISE TECHNOLOGY CO., LTD Address: Phase 3.1 Group E Building 2, No.101-103, 1 st floor, 201-204 2 nd floor Building B, Xinma Power Valley Innovation Park phase 2.1 R&D workshop, No.899 Xianyuehuan Road, Tianyuan District, Zhuzhou City, Hunan Province, China.	
Sub-contractors / tests (clause): Name:	N/A N/A
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF
	<input type="checkbox"/> Partial test according to manufacturer's specifications
	<input type="checkbox"/> Preliminary test
	<input type="checkbox"/> Spot check
	<input type="checkbox"/> Others:
Date of order: Date of receipt of test item: Date(s) of performance of test:	2025-03-26 2025-04-20 2025-04-25~2025-09-19
Test item particulars:	
- Device firmware version - Device Hardware - PCB Version - Communication interface - Local interfaces	V1.0 B3.1 B3.1 Wi-Fi, Bluetooth, RFID RJ45, RS-485

- Network Protocols	MQTTs, WSS, HTTPS, mDNS
- OS	RT-thread version 5.1.0
- App (Android)	Anker V1.11.11
- App (iOS)	Anker V1.11.11
Purpose of the product (description of intended use): Anker SOLIX V1 Smart EV Charger is a charging device for electric vehicles.	
Characteristic data (not shown on the marking plate): None	
Attachments: Attachment 1: Photo documentation	

If additional information is necessary, please provide
N/A

Copy of marking plate:



Figure1. Test model: A5191GZ2

Pictures of the product:

Throughout this report a **comma** is used as the decimal separator.
 The test results presented in this report relate only to the object tested.
 This report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Environment

(Description of test environment)

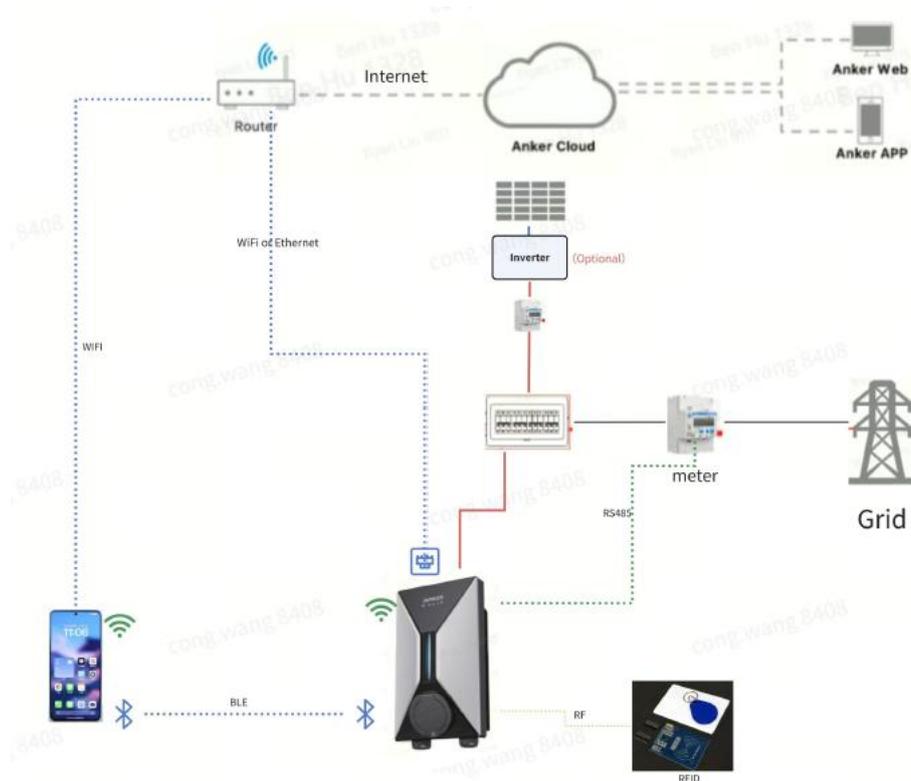


Figure3. Test Environment

Clause	Requirement + Test	Result – Remark	Verdict
6	Requirements		/
6.1	[ACM] Access control mechanism		/
6.1.1	[ACM-1] Applicability of access control mechanisms		P
6.1.2	[ACM-2] Appropriate access control mechanisms		P
6.2	[AUM] Authentication mechanism		/
6.2.1	[AUM-1] Applicability of authentication mechanisms		P
6.2.2	[AUM-2] Appropriate authentication mechanisms		P
6.2.3	[AUM-3] Authenticator validation		P
6.2.4	[AUM-4] Changing authenticators		P
6.2.5	[AUM-5] Password strength	The DUT does not implement any password-based authentication mechanism	N/A
6.2.6	[AUM-6] Brute force protection		P
6.3	[SUM] Secure update mechanism		/
6.3.1	[SUM-1] Applicability of update mechanisms		P
6.3.2	[SUM-2] Secure updates		P
6.3.3	[SUM-3] Automated updates		P
6.4	[SSM] Secure Storage Mechanism		/
6.4.1	[SSM-1] Applicability of secure storage mechanisms		P
6.4.2	[SSM-2] Appropriate integrity protection for secure storage mechanisms		P
6.4.3	[SSM-3] Appropriate confidentiality protection for secure storage mechanisms		P
6.5	[SCM] Secure communication mechanism		/
6.5.1	[SCM-1] Applicability of secure communication mechanisms		P
6.5.2	[SCM-2] Appropriate integrity and authenticity protection for secure communication mechanisms		P
6.5.3	[SCM-3] Appropriate confidentiality protection for secure communication mechanisms		P

Clause	Requirement + Test	Result – Remark	Verdict
6.5.4	[SCM-4] Appropriate replay protection for secure communication mechanisms		P
6.6	[RLM] Resilience mechanism		/
6.6.1	[RLM-1] Applicability and appropriateness of resilience mechanisms	DUT does not support methods for protecting against DoS attacks. DUT can recover and running well after DoS attacks stopped.	N/A
6.7	[NMM] Network monitoring mechanism		/
6.7.1	[NMM-1] Applicability and appropriateness of network monitoring mechanisms	DUT is not a network equipment.	N/A
6.8	[TCM] Traffic control mechanism		/
6.8.1	[TCM-1] Applicability of and appropriate traffic control mechanisms	DUT is not a network equipment.	N/A
6.9	[CCK] Confidential cryptographic keys		/
6.9.1	[CCK-1] Appropriate CCKs		P
6.9.2	[CCK-2] CCK generation mechanisms		P
6.9.3	[CCK-3] Preventing static default values for preinstalled CCKs	The PKI Certificate public key is unique per DUT and public key is a shared parameter required for the DUT's intended functionality.	N/A
6.10	[GEC] General equipment capabilities		/
6.10.1	[GEC-1] Up-to-date software and hardware with no publicly known exploitable vulnerabilities		P
6.10.2	[GEC-2] Limit exposure of services via related network interfaces		P
6.10.3	[GEC-3] Configuration of optional services and the related exposed network interfaces	DUT doesn't have optional services and related exposed network interfaces.	N/A
6.10.4	[GEC-4] Documentation of exposed network interfaces and exposed services via network interfaces		P
6.10.5	[GEC-5] No unnecessary external interfaces		P
6.10.6	[GEC-6] Input validation		P
6.11	[CRY] Cryptography		/
6.11.1	[CRY-1] Best practice Cryptography		P

-- End of report --

Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Outlook – Test Sample Front view

Remark: Model: A5191GZ2



Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Outlook – Test Sample Top view

Remark: Model: A5191GZ2



Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Outlook – Test Sample Bottom view

Remark: Model: A5191GZ2



Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Outlook – Test Sample sides view

Remark: Model: A5191GZ2



Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Outlook – Full view

Model: A5191VZ0,A5191VZ1,
A5191GZ2,A5191GZ3,
A51913Z0,A51913Z1,
A5191TZ1,A5191TZ2,
A5191VZ2,A5191VZ3,
A5191GZ4,A5191GZ7

Remark:





Attachment No.1

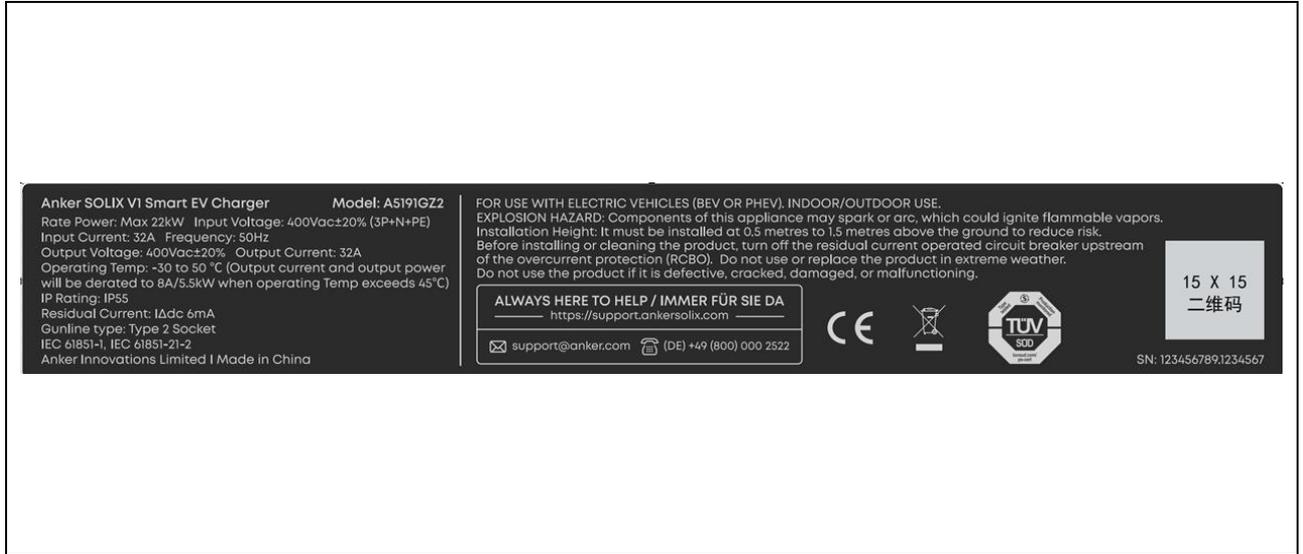


Photo documentation

Report No.: 705332507301-01

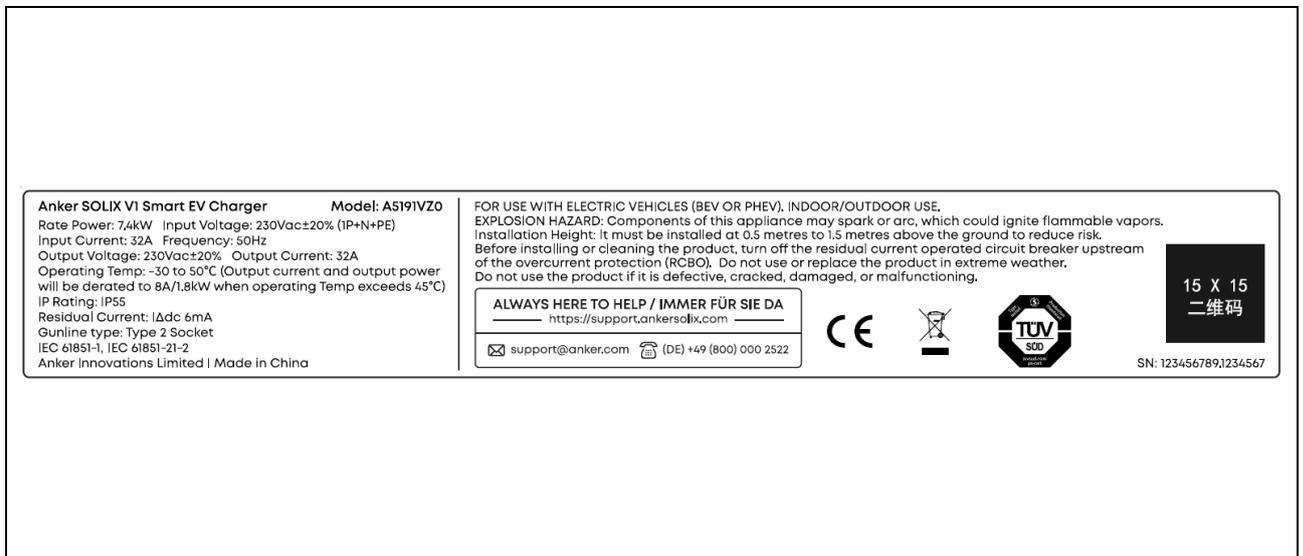
Details of: Label

Remark: Model: A5191GZ2



Details of: Label

Remark: Model: A5191VZ0



Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Label

Remark: Model: A5191VZ1

<p>Anker SOLIX V1 Smart EV Charger Model: A5191VZ1 Rate Power: 7.4kW Input Voltage: 230Vac±20% (1P+N+PE) Input Current: 32A Frequency: 50Hz Output Voltage: 230Vac±20% Output Current: 32A Operating Temp: -30 to 50°C (Output current and output power will be derated to 8A/1.8kW when operating Temp exceeds 45°C) IP Rating: IP65 Residual Current: IΔdc 6mA Gunline type: Type 2 Cable 5m IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: it must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>	<p>15 X 15 二维码</p>
<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA https://support.ankersolix.com</p> <p>✉ support@anker.com ☎ (DE) +49 (800) 000 2522</p>	<p>CE  </p>	<p>SN: 1234567891234567</p>

Details of: Label

Remark: Model: A5191GZ3

<p>Anker SOLIX V1 Smart EV Charger Model: A5191GZ3 Rate Power: 22kW Input Voltage: 400Vac±20% (3P+N+PE) Input Current: 32A Frequency: 50Hz Output Voltage: 400Vac±20% Output Current: 32A Operating Temp: -30 to 50 °C (Output current and output power will be derated to 8A/5.5kW when operating Temp exceeds 45°C) IP Rating: IP65 Residual Current: IΔdc 6mA Gunline type: Type 2 Cable 5m IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: it must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>	<p>15 X 15 二维码</p>
<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA https://support.ankersolix.com</p> <p>✉ support@anker.com ☎ (DE) +49 (800) 000 2522</p>	<p>CE  </p>	<p>SN: 1234567891234567</p>

Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Label

Remark: Model: A51913Z0

<p>Anker SOLIX V1 Smart EV Charger Model: A51913Z0 Rate Power: 7.4kW Input Voltage: 230Vac±20% (1P+N+PE) Input Current: 32A Frequency: 50Hz Output Voltage: 230Vac±20% Output Current: 32A Operating Temp: -30 to 50°C (Output current and output power will be derated to 8A/1.8kW when operating Temp exceeds 45°C) IP Rating: IP55 Residual Current: 1Δdc 6mA Gunline type: Type 2 Socket with Shutter IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: It must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>
<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA https://support.ankersolix.com</p> <p>✉ support@anker.com ☎ (DE) +49 (800) 000 2522</p>	<p>CE </p> <p>15 X 15 二维码</p> <p>SN: 1234567891234567</p>

Details of: Label

Remark: Model: A51913Z1

<p>Anker SOLIX V1 Smart EV Charger Model: A51913Z1 Rate Power: 22kW Input Voltage: 400Vac±20% (3P+N+PE) Input Current: 32A Frequency: 50Hz Output Voltage: 400Vac±20% Output Current: 32A Operating Temp: -30 to 50 °C (Output current and output power will be derated to 8A/5.5kW when operating Temp exceeds 45°C) IP Rating: IP55 Residual Current: 1Δdc 6mA Gunline type: Type 2 Socket with Shutter IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: It must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>
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Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Label

Remark: Model: A5191TZ1

<p>Anker SOLIX V1 Smart EV Charger Model: A5191TZ1 Rate Power: 7.4kW Input Voltage: 230Vac±20% (1P+N+PE) Input Current: 32A Frequency: 50Hz Output Voltage: 230Vac±20% Output Current: 32A Operating Temp: -30 to 50 °C (Output current and output power will be derated to 8A/1.8kW when operating Temp exceeds 45°C) IP Rating: IP65 Residual Current: 1Δdc 6mA Gunline type: Type 2 Cable 7m IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: It must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>	<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA — https://support.ankersolix.com — ✉ support@ankersolix.com</p>	   	<p>15 X 15 二维码</p>	<p>SN: 123456789,1234567</p>
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Details of: Label

Remark: Model: A5191TZ2

<p>Anker SOLIX V1 Smart EV Charger Model: A5191TZ2 Rate Power: 22kW Input Voltage: 400Vac±20% (3P+N+PE) Input Current: 32A Frequency: 50Hz Output Voltage: 400Vac±20% Output Current: 32A Operating Temp: -30 to 50 °C (Output current and output power will be derated to 8A/5.5kW when operating Temp exceeds 45°C) IP Rating: IP65 Residual Current: 1Δdc 6mA Gunline type: Type 2 Cable 7m IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: It must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>	<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA — https://support.ankersolix.com — ✉ support@ankersolix.com</p>	   	<p>15 X 15 二维码</p>	<p>SN: 123456789,1234567</p>
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Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Label

Remark: Model: A5191VZ2

<p>Anker SOLIX V1 Smart EV Charger Model: A5191VZ2 Rate Power: 7.4kW Input Voltage: 230Vac±10% (1P+N+PE) Input Current: 32A Frequency: 50Hz Output Voltage: 230Vac±10% Output Current: 32A Operating Temp: -30 to 50°C (Output current and output power will be derated to 8A/1.8kW when operating Temp exceeds 45°C) IP Rating: IP55 Residual Current: IΔdc 6mA Gunline type: Type 2 Socket IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: It must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>	<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA — https://support.ankersolix.com — ✉ support@anker.com ☎ (DE) +49 (800) 000 2522</p>	<p>UK CA  </p>	<p>15 X 15 二维码</p>
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Details of: Label

Remark: Model: A5191VZ3

<p>Anker SOLIX V1 Smart EV Charger Model: A5191VZ3 Rate Power: 7.4kW Input Voltage: 230Vac±10% (1P+N+PE) Input Current: 32A Frequency: 50Hz Output Voltage: 230Vac±10% Output Current: 32A Operating Temp: -30 to 50°C (Output current and output power will be derated to 8A/1.8kW when operating Temp exceeds 45°C) IP Rating: IP65 Residual Current: IΔdc 6mA Gunline type: Type 2 Cable 5m IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: It must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>	<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA — https://support.ankersolix.com — ✉ support@anker.com ☎ (DE) +49 (800) 000 2522</p>	<p>UK CA  </p>	<p>15 X 15 二维码</p>
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Attachment No.1



Photo documentation

Report No.: 705332507301-01

Details of: Label

Remark: Model: A5191GZ4

<p>Anker SOLIX V1 Smart EV Charger Model: A5191GZ4 Rate Power: 11kW Input Voltage: 400Vac±20% (3P+N+PE) Input Current: 16A Frequency: 50Hz Output Voltage: 400Vac±20% Output Current: 16A Operating Temp: -30 to 50 °C (Output current and output power will be derated to 12A/8.3kW when operating Temp exceeds 45°C) IP Rating: IP55 Residual Current: IΔdc 6mA Gunline type: Type 2 Socket IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: It must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>	<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA — https://support.ankersolix.com — ✉ support@anker.com ☎ (DE) +49 (800) 000 2522</p>	  	<p>15 X 15 二维码</p> <p>SN: 1234567891234567</p>
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Details of: Label

Remark: Model: A5191GZ7

<p>Anker SOLIX V1 Smart EV Charger Model: A5191GZ7 Rate Power: 11kW Input Voltage: 400Vac±20% (3P+N+PE) Input Current: 16A Frequency: 50Hz Output Voltage: 400Vac±20% Output Current: 16A Operating Temp: -30 to 50 °C (Output current and output power will be derated to 12A/8.3kW when operating Temp exceeds 45°C) IP Rating: IP65 Residual Current: IΔdc 6mA Gunline type: Type 2 Cable 5m IEC 61851-1, IEC 61851-21-2 Anker Innovations Limited Made in China</p>	<p>FOR USE WITH ELECTRIC VEHICLES (BEV OR PHEV), INDOOR/OUTDOOR USE. EXPLOSION HAZARD: Components of this appliance may spark or arc, which could ignite flammable vapors. Installation Height: It must be installed at 0.5 metres to 1.5 metres above the ground to reduce risk. Before installing or cleaning the product, turn off the residual current operated circuit breaker upstream of the overcurrent protection (RCBO). Do not use or replace the product in extreme weather. Do not use the product if it is defective, cracked, damaged, or malfunctioning.</p>	<p>ALWAYS HERE TO HELP / IMMER FÜR SIE DA — https://support.ankersolix.com — ✉ support@anker.com ☎ (DE) +49 (800) 000 2522</p>	  	<p>15 X 15 二维码</p> <p>SN: 1234567891234567</p>
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*** END OF REPORT ***