

## Declaration – Max Short Circuit Current

Jinko Solar Co., Ltd. (**'Jinko Solar'**) hereby declares that the Jinko JKS-3~6HLVS-ABI inverter series have been approved by certificate IEC62109.1 which already has the 1.25-1.5 I<sub>sc</sub> allowance built in. Therefore, the internal protective device and components used on inverters have been designed adequately to protect the event of a short circuit current of PV panels.

Jinko Solar hereby confirms that the below inverter models allow up to 18A PV max short circuit current. Listed below.

Series	Model	Tested Short Circuit Current per MPPT
Jinko Suntank Series Inverter	JKS-3HLVS-ABI	18A
	JKS-3.6HLVS-ABI	18A
	JKS-4HLVS-ABI	18A
	JKS-4.6HLVS-ABI	18A
	JKS-5HLVS-ABI	18A
	JKS-6HLVS-ABI	18A

Jinko Solar has also confirmed the key components used on the Jinko JKS-3~6HLVS-ABI series of inverters to guarantee above models are able to withstand 18A PV short circuit current and no damage to circuit hardware.

Model **JKS-6HLVS-ABI** is used as representative for testing in the following test report.

If you have any questions regarding the above statement, please contact Jinko Solar technical support team.

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Yours sincerely,

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R&D Manager

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## Appendix: PV Input Short Circuit Test Report

### 1. Purpose

Check the status of the inverter under the input short current of 18A.

### 2. Test Instruments

- Solar Simulator: EA PSI-9750-60
- Utility Power: 230 V /50 Hz
- Oscilloscope: YOKOGAWA DLM2024
- Isolation probe: Sapphire SI-9110
- Current amplifier : Tektronix TCPA 300

### 3. Test Condition

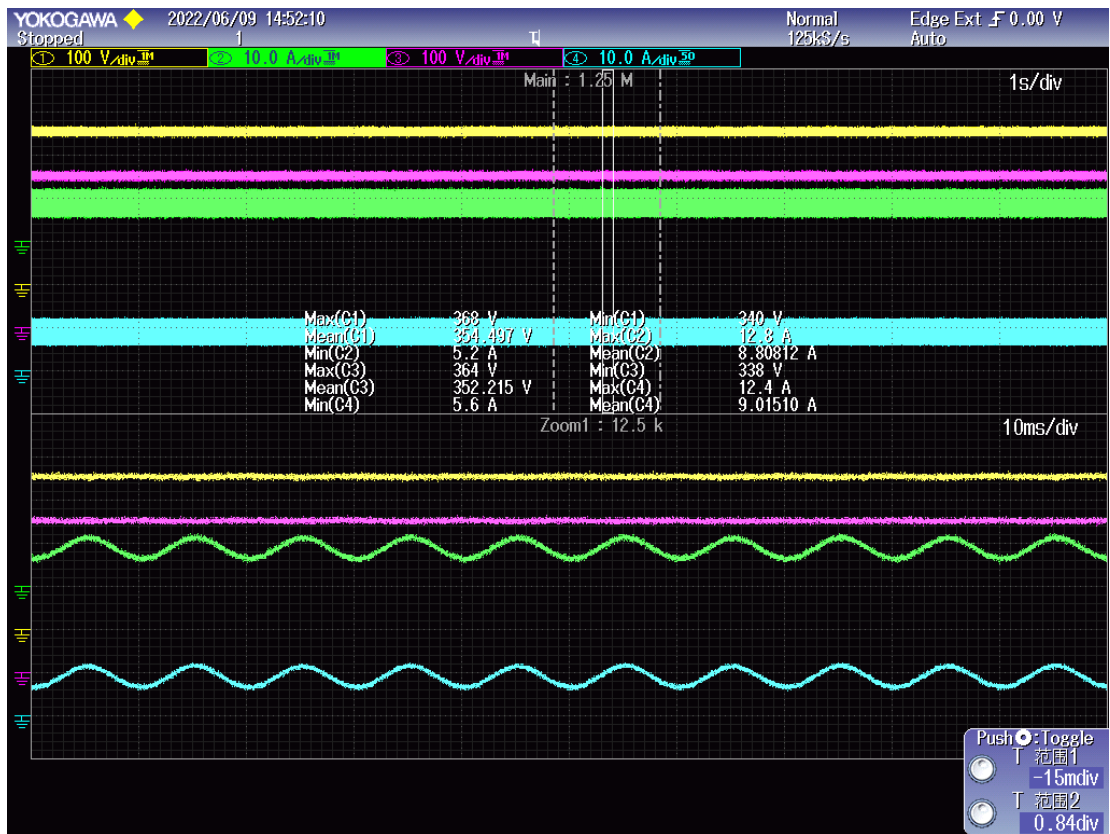
Room temperature

### 4. Test Procedure

- Set the Solar Simulator parameter: Voltage:360V Current:36A



Turn on the Solar Simulator and AC grid, waiting for about 30s the inverter starts to output power 6000w.



Channel 1 PV1 Voltage 100.0V/div Channel 2 PV1 current 10.0A/div

Channel 3 PV2 Voltage 100.0V/div Channel 4 PV2 current 10.0A/div

b. Reverse the PV input. The short current is about 18A.

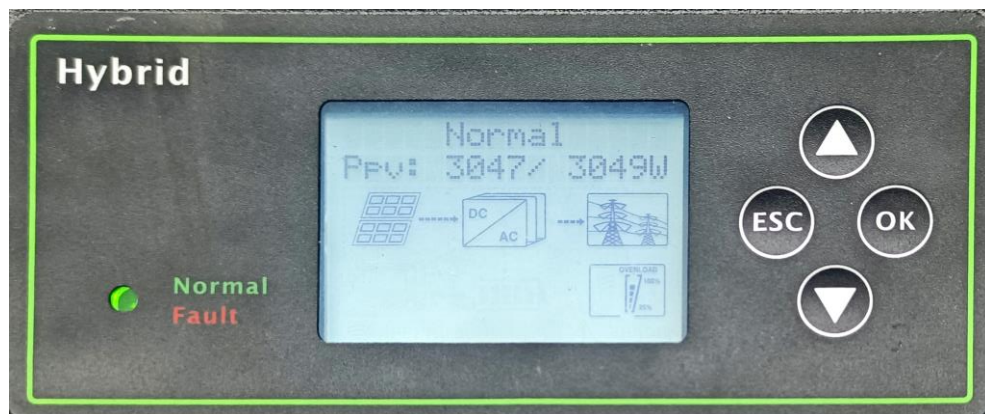


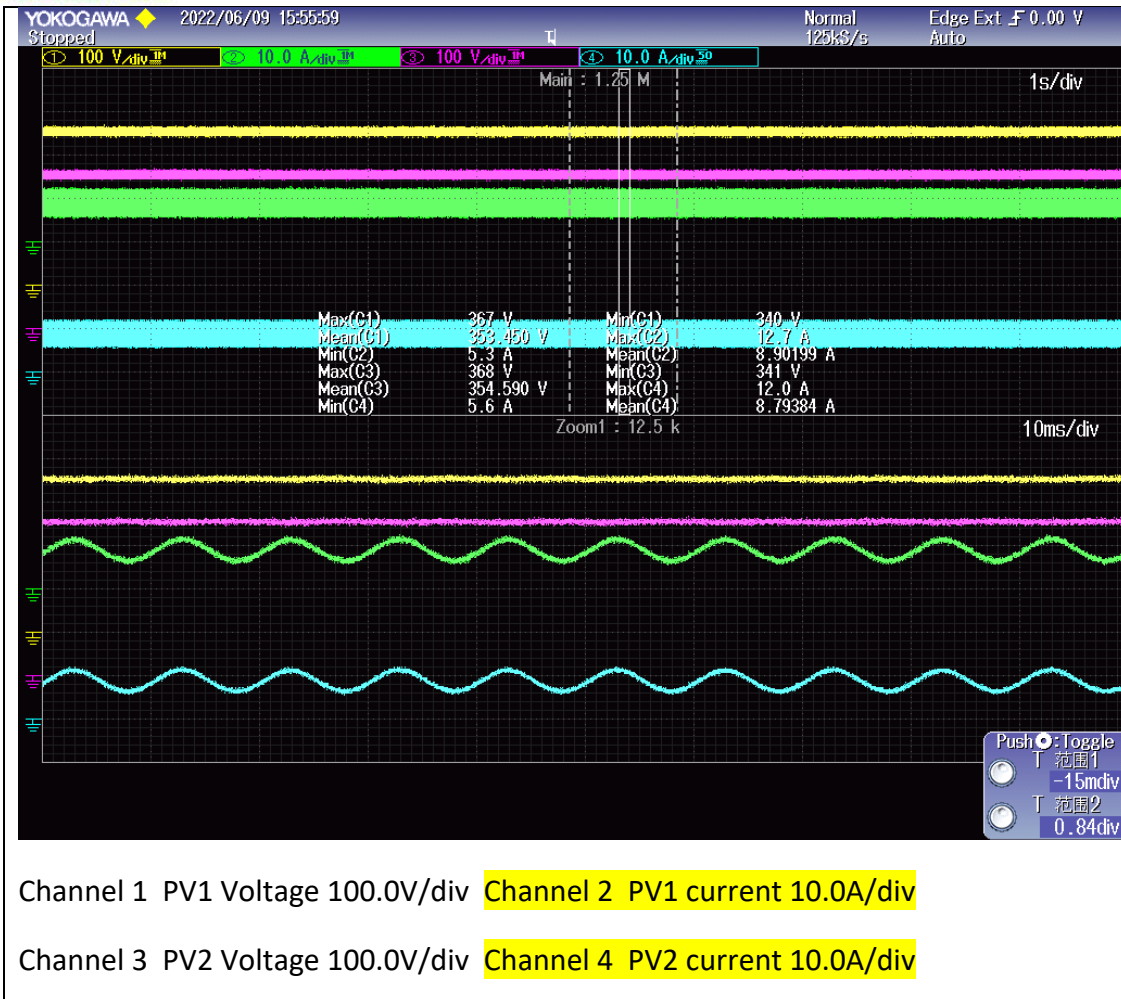
Channel 1 PV1 Voltage 100.0V/div Channel 2 PV1 current 10.0A/div

Channel 3 PV2 Voltage 100.0V/div Channel 4 PV2 current 10.0A/div

- c. After half an hour, connect the input of the inverter correctly.

Turn on the Solar Simulator and AC grid, waiting for about 30s the inverter starts to output power 6000w.





## 5. Conclusion

JKS-6HLVS-ABI inverter can withstand 18A short current, there is no hazard, no damage under the short circuit condition, when we connect PV input correctly, the inverter operates normally.