

18 July 2022

To whom it may concern,

With respect to AS 5033 and Max Short Circuit Current

Redback Technologies confirms that all inverter models listed below have been designed with an allowance for 1.25 – 1.5x I_{sc} allowance for compliance with IEC 62109.1. The internal protective device and components used on the inverters have been designed adequately to protect the system from short circuit current of the PV panels. Redback would like to advise the following inverter models listed below have been tested to the stated max short circuit current (I_{sc} max). These values can be used as the inverter component rating for AS 5033 max short circuit current calculations.

Model	Name	Max Short Circuit Current (I_{sc} max)
SH5000	Smart Hybrid	DC 18/18A
ST10000	3-Phase Smart Hybrid	DC 17.5/36A
SI5000 & SI6000	Smart Inverter	DC 17.5/17.5A
SI8000 & SI10000	Smart Inverter	DC 17.5/35A

In selecting panels and doing string design, please note that the limits stated on the plate rating of the inverter must still be used for the operating currents and voltages of the inverters.

Kind regards,



Adrian Knack

Chief Technology Officer

