



Manufacturer Declaration

PCE Compliant Load Break Disconnecter

SMA Solar Technology AG hereby declare its inverter have a built-in DC load break disconnecter able to comply with the requirements of Clause 4.4.1.2 AS/NZS 5033:2014 Amd 1 for a disconnecter located in the enclosure as other components of the PCE. When the load break disconnecter is in the OFF position, there is no risk of electrical hazards where the PCE external enclosure cover is removed for repair or replacement. The following products are covered by this declaration:

- SB1.5-1VL-40, SB2.5-1VL-40
- SB3.0-1AV-40, SB3.6-1AV-40, SB4.0-1AV-40, SB5.0-1AV-40
- STP 15000TL-30, STP 20000TL-30, STP 25000TL-30
- STP 50-40
- STP 60-10
- SHP 75-10

The integrated load break disconnecter conforms to IEC 60947-3, taking into account the operating temperature range of the inverter. The load break disconnecter breaks all poles simultaneously. The load break disconnecter has the following DC21B ratings for each positive and negative input, for each maximum power point tracker at an ambient temperature of 60°C unless otherwise stated:

	V_{DC}	400 V	600 V	800 V	1000 V
I_{DC}	SBx.x-1VL-40	45 A	30 A	N/A	N/A
	SBx.x-1AV-40	22.5 A	15 A	N/A	N/A
	STP xx000TL-30	40 A	40 A	32 A	25 A
	STP 50-40	50 A*	36 A*	25 A*	16 A*
	STP 60-10	-	131 A**	97 A	50 A
	SHP 75-10	-	131 A**	97 A	50 A

* Current is rated at 75°C ambient, all others: current is rated at 60°C ambient

** interpolated from datasheet value 140A@560V

Niestetal, 04.07.2018

SMA Solar Technology AG

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