



Summary of test results for inverter family: Sunny Mini Central (with galvanic isolation)

Manufacturer:	SMA Solar Technology AG
Address:	Sonnenallee 1
Postal code, place:	34266 Niestetal
Country:	Germany

Test house details:	SMA Solar Technology AG, R&D Department, Niestetal (D) Phoenix Testlab, Blomberg (D)
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Type reference	Max. AC power	Nominal AC power	Nominal AC current
SMC 4600A	5000 W	4600 W	20.0 A
SMC 5000A	5500 W	5000 W	21.7 A
SMC 6000A	6000 W	6000 W	26.0 A
SMC 7000HV-11	7000 W	6650 W	28.9 A

This document contains a summarization of the test results according to:

- Harmonics
- Voltage Fluctuations and Flicker
- DC injection

The complete documentation and the test details are available at SMA (on demand).

SMA Solar Technology AG
Niestetal, 08.12.2010

i. V. Tobias Henne
Director TMPM

Test results:

Harmonic current

as per IEC 61000-3-12:2004 tested by SMA Solar Technology AG

Type reference	THD	Odd harmonic	Even harmonic
max. value SMC 4600A	1.20 %	0.45 %	0.07 %
max. value SMC 5000A	1.15 %	0.46 %	0.09 %
max. value SMC 6000A	1.04 %	0.40 %	0.06 %
max. value SMC 7000HV-11	1.44 %	1.22 %	0.38 %

Voltage fluctuation and flicker

as per IEC 61000-3-11:2000 tested by Phoenix Testlab

Type reference	Pst
max. value SMC 4600A	0.179
max. value SMC 5000A	0.179
max. value SMC 6000A	0.179
max. value SMC 7000HV-11	0.266

DC injection

Not tested, because a grid frequency transformer is included. It is international accepted that it is not possible that a DC injection pass a low frequency transformer.

Type reference	DC injection
SMC 4600A	Power transformer block 168 V / 230 V, 50 Hz max. output power 6500 VA
SMC 5000A	
SMC 6000A	
SMC 7000HV-11	Power transformer block 230 V / 230 V, 50 Hz max. output power 7000 VA