

Certificate of compliance

Applicant: SMA Solar Technology AG

Sonnenallee 1 34266 Niestetal

Germany

Product: Grid-tied photovoltaic (PV) inverter

Model: SB5.0-1AV-40

SB4.0-1AV-40 SB3.6-1AV-40 SB3.0-1AV-40

Use in accordance with regulations:

The inverter(s) are tested according the IEC 61683:1999, EN 61683:2000, DIN EN 61683:2000 procedure for measuring efficiency.

Applied rules and standards:

IEC 61683:1999, EN 61683:2000, DIN EN 61683:2000

Photovoltaic systems – Power conditioners – Procedure for measuring efficiency

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: PV170801N014-1

Certificate number: U17-0528
Date of issue: 2017-09-20





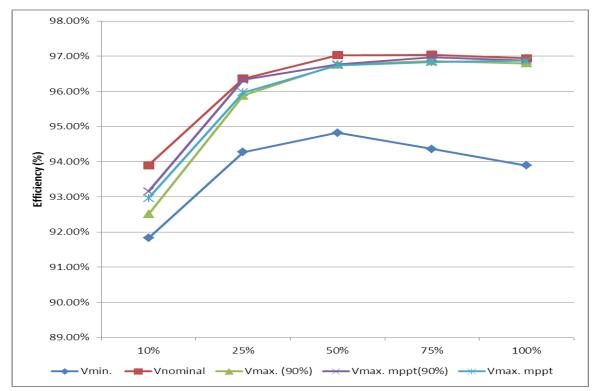
Certification body of Bureau Veritas Consumer Products Services Germany GmbH Accredited according to DIN EN ISO/IEC 17065



Extract from test report according the IEC 61683

Nr. PV170801N014-1

SB3.0-1AV-40								
		Power in [W] (nom. 3,0kW)						
Input voltage [Vdc]		10%	25%	50%	75%	100%		
		0,3kW	0,75kW	1,5kW	2,25kW	3kW		
		η in [%]						
V_{min}	110	91,83%	94,27%	94,82%	94,36%	93,89%		
V _{nominal}	400	93,90%	96,36%	97,03%	97,04%	96,94%		
V _{max (90% MPPT)}	540	92,51%	95,88%	96,76%	96,86%	96,80%		
V _{max (90%)}	432	93,15%	96,33%	96,76%	96,97%	96,87%		
V _{max (MPPT)}	480	92,96%	95,97%	96,74%	96,83%	96,87%		



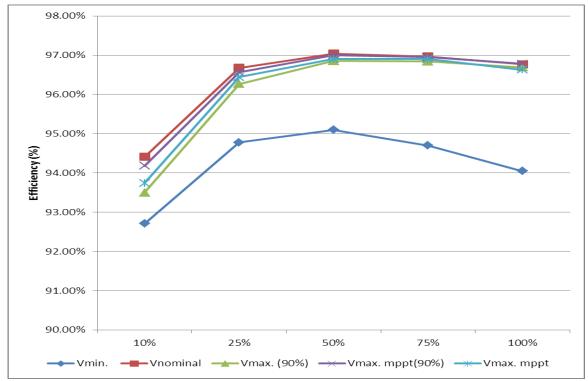
Internal power consumption via PV No-load: 1,27W / 6,40W Max. Internal power consumption via AC stand by: 2,06W Max.



Extract from test report according the IEC 61683

Nr. PV170801N014-1

SB3.6-1AV-40								
		Power in [W] (nom. 3,0kW)						
Input voltage [Vdc]		10%	25%	50%	75%	100%		
		0,368kW	0,91kW	1,84kW	2,76kW	3,68kW		
		η in [%]						
V_{min}	130	92,71%	94,78%	95,10%	94,70%	94,05%		
V _{nominal}	400	94,41%	96,68%	97,04%	96,97%	96,77%		
V _{max (90% MPPT)}	540	93,50%	96,27%	96,85%	96,84%	96,69%		
V _{max (90%)}	432	94,18%	96,57%	97,00%	96,95%	96,78%		
V _{max (MPPT)}	480	93,74%	96,44%	96,90%	96,90%	96,63%		



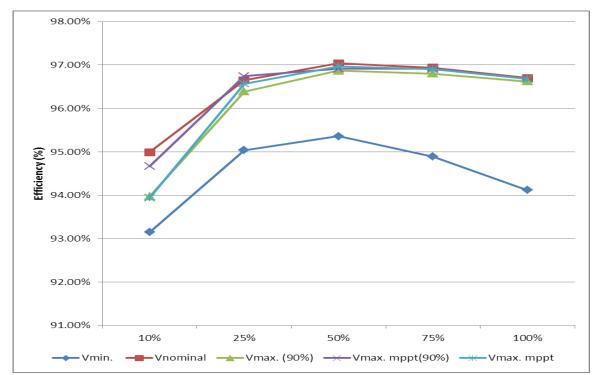
Internal power consumption via PV No-load: 1,27W / 6,40W Max. Internal power consumption via AC stand by: 2,06W Max.



Extract from test report according the IEC 61683

Nr. PV170801N014-1

SB4.0-1AV-40								
		Power in [W] (nom. 3,0kW)						
Input voltage [Vdc]		10%	25%	50%	75%	100%		
		0,4kW	1kW	2kW	3kW	4kW		
		η in [%]						
V_{min}	140	93,15%	95,04%	95,36%	94,89%	94,12%		
V _{nominal}	400	94,99%	96,65%	97,04%	96,94%	96,70%		
V _{max (90% MPPT)}	540	93,97%	96,39%	96,87%	96,80%	96,62%		
V _{max (90%)}	432	94,67%	96,74%	96,91%	96,91%	96,68%		
V _{max (MPPT)}	480	93,94%	96,57%	96,97%	96,90%	96,68%		



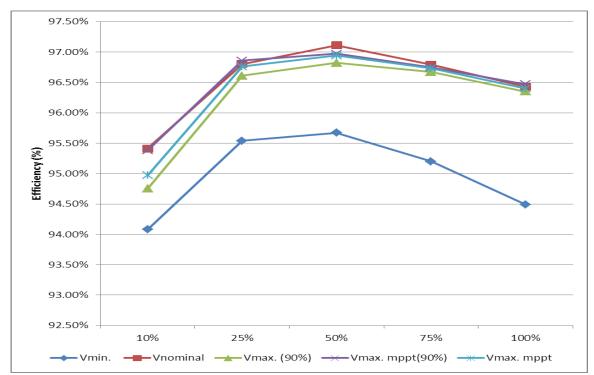
Internal power consumption via PV No-load: 1,27W / 6.40W Max. Internal power consumption via AC stand by: 2,06W Max.



Extract from test report according the IEC 61683

Nr. PV170801N014-1

SB5.0-1AV-40								
		Power in [W] (nom. 3,0kW)						
Input voltage [Vdc]		10%	25%	50%	75%	100%		
		0,5kW	1,25kW	2,5kW	3,75kW	5kW		
		η in [%]						
V_{min}	175	94,08%	95,54%	95,67%	95,20%	94,49%		
V _{nominal}	400	95,41%	96,80%	97,11%	96,79%	96,43%		
V _{max (90% MPPT)}	540	94,75%	96,61%	96,82%	96,67%	96,35%		
V _{max (90%)}	432	95,38%	96,86%	96,97%	96,75%	96,47%		
V _{max (MPPT)}	480	94,97%	96,76%	96,94%	96,73%	96,40%		



Internal power consumption via PV No-load: 1,27W / 6,40W Max. Internal power consumption via AC stand by: 2,06W Max.