



Certificate of compliance

Applicant: **ALTENERGY POWER SYSTEM INC.**
No.1 Yatai Road,
Jiaxing 314050 Zhejiang Province,
P.R. China

Product: **Grid-tied photovoltaic (PV) inverter**

Model: **QS1
QS1200**

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: **ZEK-18AU0385FCSHP-3**

Certificate number: **U18-0517**

Date of issue: **2018-09-13**

Certification body



Holger Schaffer



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

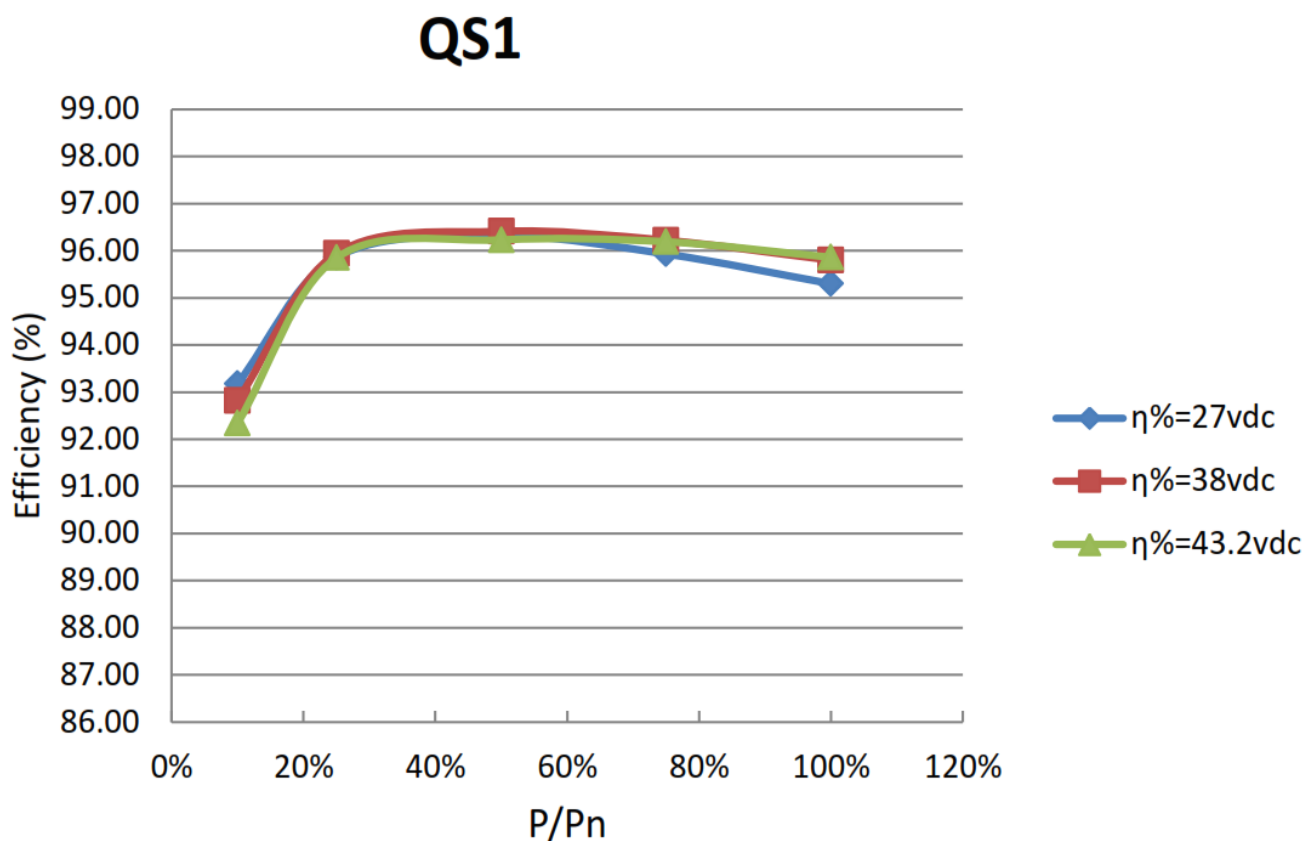
Measuring of efficiency

Extract from test report according the IEC 61683

Nr. ZEK-18AU0385FCSH-3

Efficiency measurement conditions test results

Model: QS1						
Input voltage [Vdc]		Power in [W] (nom. 1200W)				
		10%	25%	50%	75%	100%
		0,12kW	0,30kW	0,60kW	0,90kW	1,20kW
		η in [%]				
V_{min}	27	93,18	95,86	96,31	95,93	95,30
$V_{nominal}$	38	92,82	95,94	96,41	96,22	95,80
V_{max} (90% MPPT)	43,2	92,34	95,85	96,23	96,19	95,86



Internal power consumption via auxiliary input in stand by: 0,5W (Input: 0V, 0A; Output: 230V, 2,17mA)
 Internal power consumption via auxiliary input at maximum output power: 1,4W