



**BUREAU
VERITAS**

Certificate of compliance

Applicant: Power-One Italy S.p.A.
Via San Giorgio 642
52028 Terranuova Bracciolini, Arezzo
Italy

Product: Grid-tied photovoltaic (PV) inverter

Model: TRIO-8.5-TL-OUTD-400
TRIO-8.5-TL-OUTD-S-400
TRIO-7.5-TL-OUTD-S-400
TRIO-7.5-TL-OUTD-400
TRIO-5.8-TL-OUTD-S-400
TRIO-5.8-TL-OUTD-400

Use in accordance with regulations:

The inverter(s) are tested according to 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: 15TH0150-TRIO-x,x-TL-IEC61683
Certificate number: U15-0259
Date of issue: 2015-08-13

Certification body

Dieter Zitzmann

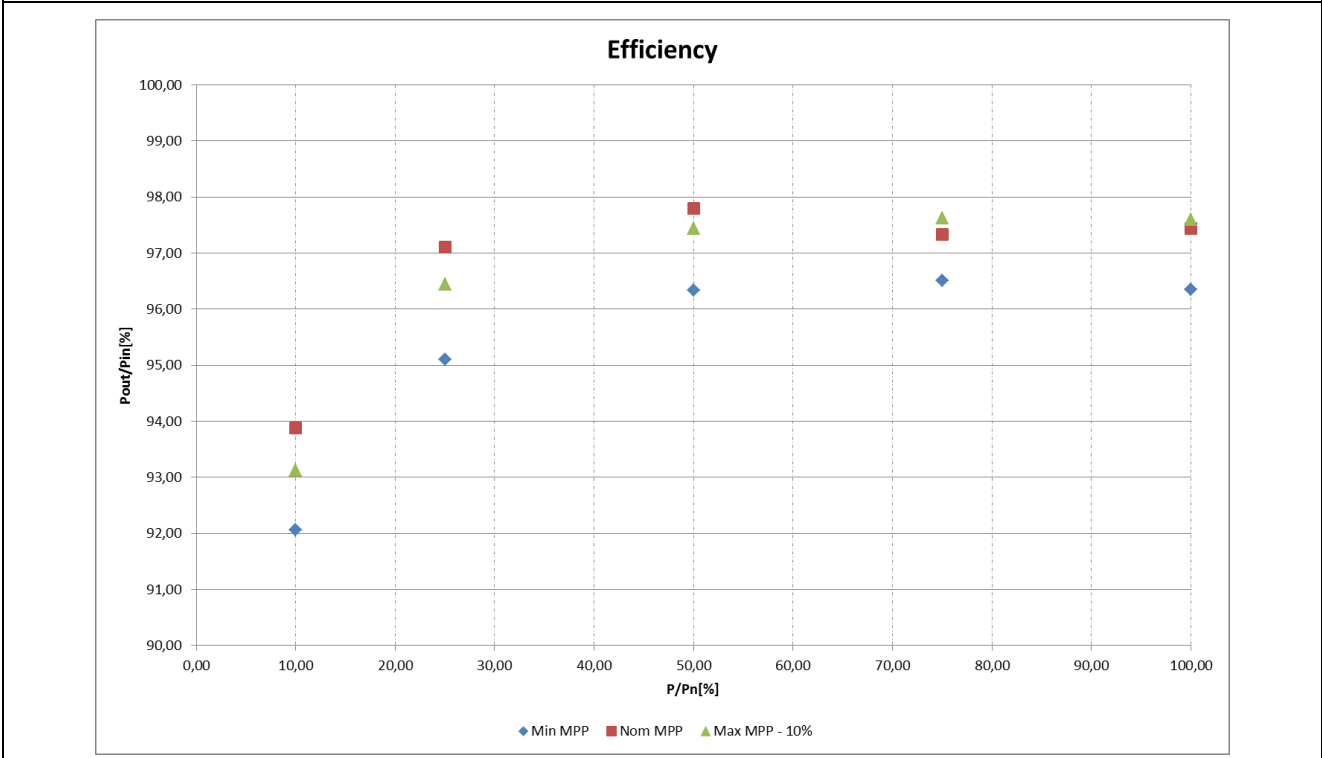


Deutsche
Akkreditierungsstelle
D-ZE-12024-01-01

Certification body of Bureau Veritas Consumer Products Services Germany GmbH
Accredited according to EN 45011 - ISO / IEC Guide 65

Measuring of efficiency
 Extract from test report according the IEC 61683 Nr. 15TH0150-TRIO-8,5-TL-IEC61683

Efficiency measurement conditions test results						
TRIO-8.5-TL-OUTD-S-400		Temperature 25° C				
Input voltage (Vdc)		Power Level				
		10%	25%	50%	75%	100%
		0,85kW	2,125kW	4,25kW	6,375kW	8,5kW
V _{min}	320,00V	92,06%	95,10%	96,34%	96,51%	96,36%
V _{nominal}	620,00V	93,88%	97,11%	97,80%	97,33%	97,44%
V _{max} (90% MPPT)	720,00V	93,12%	96,44%	97,43%	97,62%	97,59%



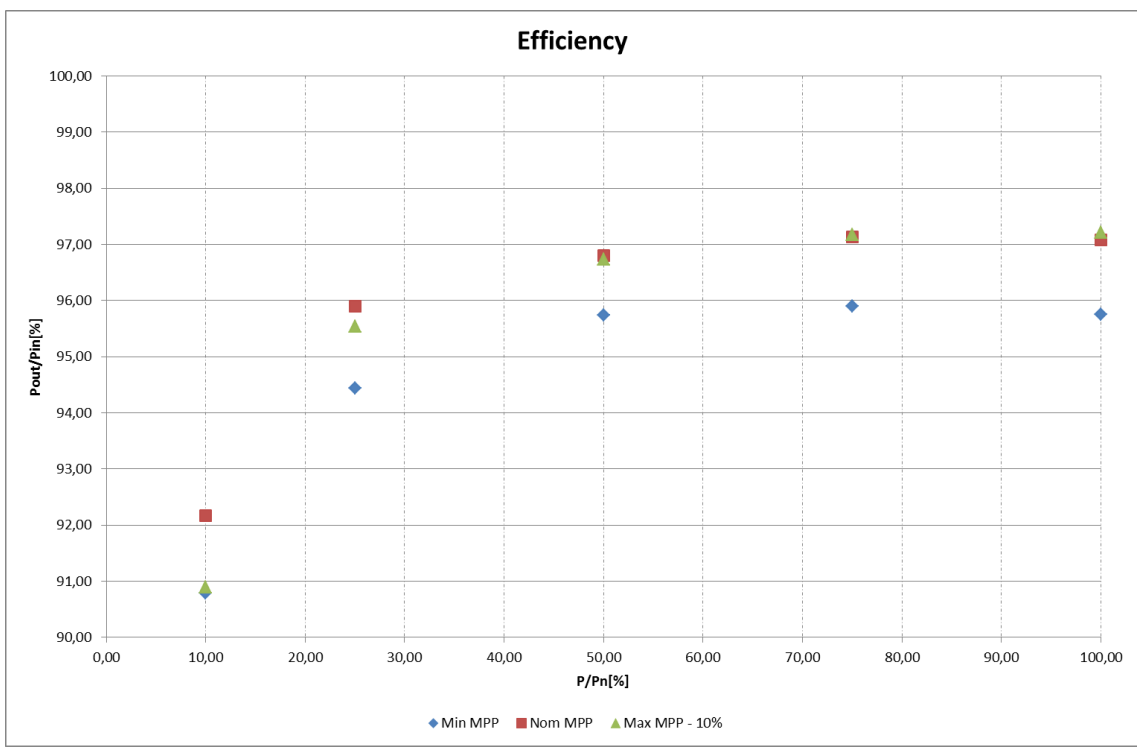
Internal power consumption via auxiliary input in standby : 15W (Input: 700V, 0,021A; Output: 0V, 0mA)
 Internal power consumption via auxiliary input at maximum output power : 415W

Measuring of efficiency

Extract from test report according the IEC 61683 Nr. 15TH0150-TRIO-8,5-TL-IEC61683

Efficiency measurement conditions test results

TRIO-7.5-TL-OUTD-S-400		Temperature 25° C				
Input voltage (Vdc)		Power Level				
		10%	25%	50%	75%	100%
		0,75kW	1,875kW	3,75kW	5,625kW	7,5kW
V _{min}	320,00V	90,78%	94,44%	95,74%	95,90%	95,75%
V _{nominal}	620,00V	92,17%	95,90%	96,81%	97,13%	97,07%
V _{max (90% MPPT)}	720,00V	90,89%	95,53%	96,74%	97,17%	97,21%



Internal power consumption via auxiliary input in standby : 15W (Input: 700V, 0,021A; Output: 0V, 0mA)

Internal power consumption via auxiliary input at maximum output power : 415W

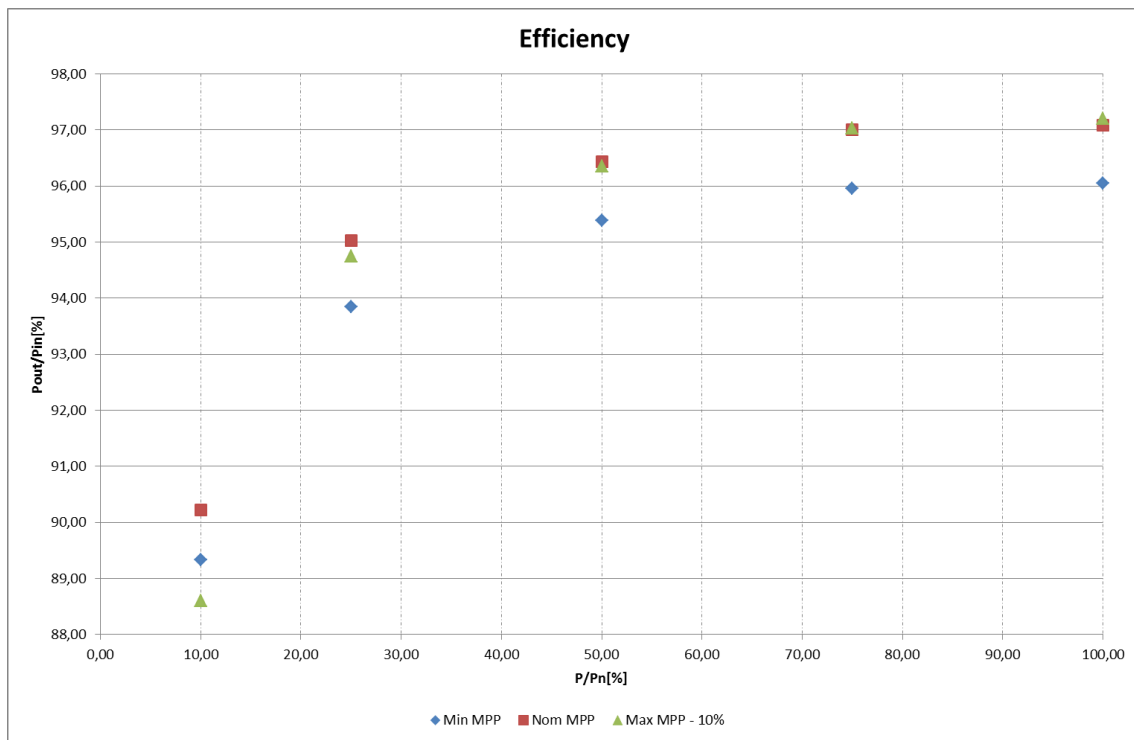
Measuring of efficiency

Extract from test report according the IEC 61683

Nr. 15TH0150-TRIO-8,5-TL-IEC61683

Efficiency measurement conditions test results

TRIO-5.8-TL-OUTD-S-400		Temperature 25° C				
Input voltage (Vdc)		Power Level				
		10%	25%	50%	75%	100%
		0,58kW	1,45kW	2,9kW	4,35kW	5,8kW
V _{min}	320,00V	89,33%	93,85%	95,39%	95,96%	96,05%
V _{nominal}	620,00V	90,22%	95,03%	96,43%	97,00%	97,08%
V _{max} (90% MPPT)	720,00V	88,60%	94,75%	96,36%	97,03%	97,20%



Internal power consumption via auxiliary input in standby : 15W (Input: 700V, 0,021A; Output: 0V, 0mA)

Internal power consumption via auxiliary input at maximum output power : 415W