



**BUREAU  
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Certification body of BV CPS GmbH  
Accredited according to EN 45011 -  
ISO / IEC Guide 65

## 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:** **PVI-12.5-TL-OUTD  
PVI-12.5-TL-OUTD-S  
PVI-12.5-TL-OUTD-FS**

### Use in accordance with regulations:

The inverter is 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:** **15TH0150-IEC61683**

**Certificate number:** **U14-0284**

**Date of issue:** **2014-05-12**

### Certification body

Dieter Zitzmann



Deutsche  
Akkreditierungsstelle  
D-ZE-12024-01-01



QUALITY



HEALTH



SAFETY



ENVIRONMENT



SOCIAL  
ACCOUNTABILITY

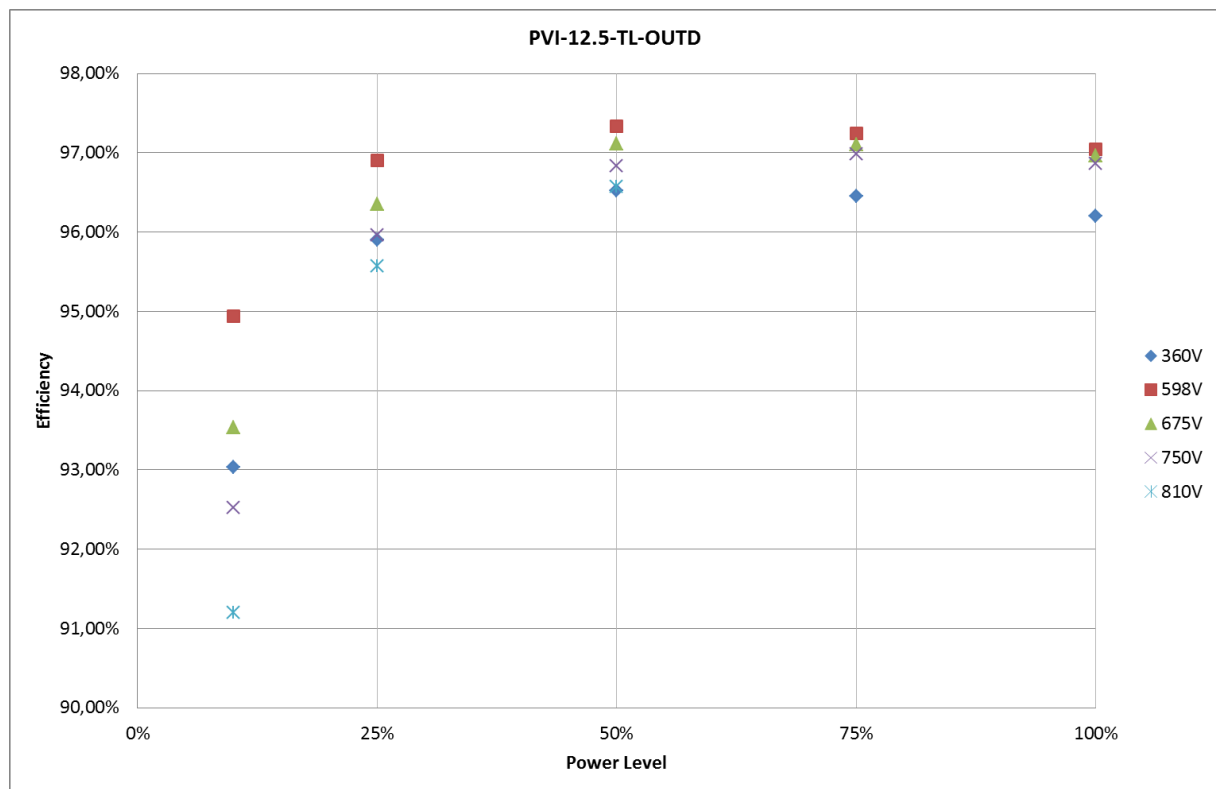
**Measuring of efficiency**

Extract from test report according the IEC 61683

Nr. 14TH0150

**4. Efficiency measurement conditions test results**

Input voltage (Vdc)		Temperature 25°C				
		Power Level				
		10%	25%	50%	75%	100%
		1250W	3125W	6250W	9375kW	12500W
		η in [%]				
Vmin	360	93,03%	95,90%	96,52%	96,45%	96,20%
Vnominal	598	94,94%	96,90%	97,33%	97,24%	97,04%
Vmax (90% MPPT)	675	93,53%	96,35%	97,11%	97,10%	96,96%
Vmax (MPPT)	750	92,52%	95,96%	96,83%	96,98%	96,86%
Vmax (90%)	810	91,20%	95,57%	96,57%	Power derating	Power derating



Internal power consumption via auxiliary input in standby : 16,53W (Input: 700V, 0,024A; Ouput: 0V, 0mA)

Internal power consumption via auxiliary input at maximum output power : 495W