



## Clean report of findings for switch-disconnector (ESS Electronic Solar Switch) with integrated electronic string fuse

Valid for the following SUNNY TRIPower inverter range:  
STP 8000TL-10 / 10000TL-10 / 12000TL-10 / 15000TL-10 / 17000TL-10

### Test Certificate 10014 (UB.017.00/08-122)



Fachbereich Prüfstelle  
Prüflabor Köln

**Customer:** SMA Solar Technology AG  
Sonnenallee 1  
34266 Niestetal

**Product:** DC load disconnecting unit for PV systems with integrated electronic string fuse to prevent reverse current


**Type:** Electronic Solar Switch (ESS) / electronic string fuse

**Intended Use:** Disconnection of the DC side of a solar-inverter under load and replacement of string fuses in PV systems by an equivalent electric circuit, with additional detection of reverse current.  
This device is part of the PV-inverters:  
Sunny Tripower 10000TL, Sunny Tripower 12000TL, Sunny Tripower 15000TL and Sunny Tripower 17000TL

**Testing based on:** Functional requirements of:  
DIN VDE 0100-712:2006-06 Abs. 712.433, 712.536  
UTE C 15-712:2008-02 Abs. 7.1.1  
On the basis of: DIN EN 60947-3 / VDE 0660-107:2006-03  
IEC 60364-7-712:2005-05, HD 60364-7-712:2005-07

**Test result:** The safety concept of the above product tested week 15, 12 April 2010, ref.: LB.017.00/08-122 fulfils the technical safety requirements in force at the time of issue of the present certificate for the normal intended use.

**Date of issue:** 2010-07-07

  
Martin Mehlem  
(Head of testing and certification body)