

**SMA Solar Technology AG**

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To whom it may concern

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**Medium Voltage Grid Connection in Italy
 MVPS Compliance according to CEI 0-16**

Hereby we confirm that our Medium Voltage Power Station (MVPS) for PV applications with Sunny Central (SC or SC UP) is compliant to the Italian standard CEI 0-16. According paragraph 8.5.13 of this standard there is a limit on 20 KV grid for Medium Voltage Transformer (MVT), defined with a transformer power of 2000 KVA and a short circuit voltage Vcc of 6%. Higher power classes are allowed in case of using higher short circuit impedances, to reduce the short circuit power according to paragraph 8.5.13. SMA will deliver the following transformers for 20 KV grid connection:

| MVPS | DC Voltage | MVT power | AC Voltage | Vcc |
|------|------------|-----------|------------|---------|
| 2200 | 1000 V | 2000 KVA | 20 KV | >6 % |
| 2475 | 1000 V | 2250 KVA | 20 KV | >6.75 % |
| 2660 | 1500 V | 2394 KVA | 20 KV | >7.18 % |
| 2800 | 1500 V | 2520 KVA | 20 KV | >7.56 % |
| 2930 | 1500 V | 2637 KVA | 20 KV | >7.91 % |
| 3060 | 1500 V | 2754 KVA | 20 KV | >8.26 % |

There is also a limit for the maximum power of 6000 KVA that can be energized at the same time according to paragraph 8.5.14 of the standard CEI 0-16. In this case SMA Solar Technology AG can offer the option Cascade Control for a delayed switching of the MV transformers, to reduce the inrush current.

Yours sincerely,
SMA Solar Technology AG


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