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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) 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 connection for Medium Voltage Transformers (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	> 6.00 %
2475	1000 V	2250 kVA	20 kV	> 6.75 %
2500	1500 V	2250 kVA	20 kV	> 6.75 %
2750	1500 V	2500 kVA	20 kV	> 7.50 %
3000	1500 V	2700 kVA	20 kV	> 8.10 %

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,

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