



Manufacturer's Declaration

Supplier statement to the "CIRCULAR No. 25/2016/TT-BCT" (REGULATIONS ON ELECTRICITY TRANSMISSION SYSTEM in VIETNAM) from November 2016

- SC 2200, SC 2475, SC 2500-EV, SC 2750-EV, SC 3000-EV
- SC 4000 UP, SC 4200 UP, SC 4400 UP, SC 4600 UP
- SCS 1900, SCS 2200, SCS 2475, SCS 2900
- SCS 3450 UP (-XT), SCS 3600 UP (-XT), SCS 3800 UP (-XT), SCS 3950 UP (-XT)
- SHP 100-20; SHP 150-20

SMA inverters listed above comply with the following requirements described in Article 42 of the No. 25/2016/TT-BCT CIRCULAR, REGULATIONS ON ELECTRICITY TRANSMISSION SYSTEM, published by THE MINISTRY OF INDUSTRY AND TRADE in VIETNAM, considering the following notes where applicable:

1. Ref. Article 42.1: Setpoint values for active power adjustment can be reached within 30s and with an accuracy of approximately +/-1% measured at the output terminals of one single inverter. However, the accuracy of setpoint values for a whole PV generating plant depends on the whole control system of the plant and needs to consider the accuracy of further devices such as a controller or measurement transducers.
2. Ref. Article 42.2 & 42.6c: In order to maintain steady power output at changing voltages it might be necessary to adapt the installed inverter power.
3. Ref. Article 42.4: The reduction of power depending on the frequency can be realized either by each single inverter or by means of a plant controlling device (e.g. SMA Power Plant Manager).
4. Ref. Article 42.5c: the function of grid voltage control can be fulfilled in combination with a suitable plant control device (e.g. SMA power plant controller). However, it must be noted that there are constraints given by the system (e.g. short circuit ratio of the connection point) or limitations of power factor given by the system operator that need to be considered.
5. Ref. Article 42.5d: in case the grid voltage is under abnormal conditions (e.g. beyond +/-10%) the SMA inverters are able to support the grid by injecting additional reactive current. The amount of reactive current can be adjusted by parameter settings which are described in the operating manual.
6. Ref. Article 42.6a+b: the inverters listed above are able to stay connected and maintain generation of power in the time ranges required. Please note that the under-voltage protection settings of the plant and inverter must be parametrized in a way that it does not conflict with the required FRT curve.

Niestetal, 2020-12-09

SMA Solar Technology AG

A handwritten signature in blue ink that reads 'i.V. Sven Bremicker'. The signature is written in a cursive, flowing style.

i.V. Sven Bremicker
Head of Technology Development Center