

## Setting for grid operator of Czech Republic

**SolaX Power Network Technology (Zhe jiang) Co. , Ltd.**

hereby confirms that the following inverters fulfill EN 50438:2013:

**X3-4.0-T-D    X3-4.0-T-N    X3-5.0-T-D    X3-5.0-T-N**  
**X3-6.0-T-D    X3-6.0-T-N    X3-7.0-T-D    X3-7.0-T-N**  
**X3-8.0-T-D    X3-8.0-T-N    X3-9.0-T-D    X3-9.0-T-N**  
**X3-10.0-T-D   X3-10.0-T-N**  
**X3-4.0-S-D    X3-4.0-S-N**  
**X3-5.0-S-D    X3-5.0-S-N**

### 1. Grid parameters below can be set following the service manual.

Lower frequency limit:  $F_n - 2,5\text{Hz} = 47,5\text{Hz}$  ; max. disconnection time: 0,5s

Upper frequency limit:  $F_n + 2,0\text{Hz} = 52,0\text{Hz}$  ; max. disconnection time: 0,5s

Upper voltage limit 1:  $230\text{V} + 10\% = 253,0\text{V}$ ; max. disconnection time 3s ; RMS mean over 10 min. according to EN 61000-4-30 with update of the value every 3s .

Upper voltage limit 2:  $230\text{V} + 15\% = 264,5\text{V}$  ; max. disconnection time: 0,2s

Upper voltage limit 3:  $230\text{V} + 20\% = 276\text{V}$  ; max. disconnection time: 0,1s

Low voltage limit :  $230\text{V} - 15\% = 195,5\text{V}$  ; max. disconnection time: 1,5s

### 2. Q(U) function can be set to the values of figure 1 by following the service manual.

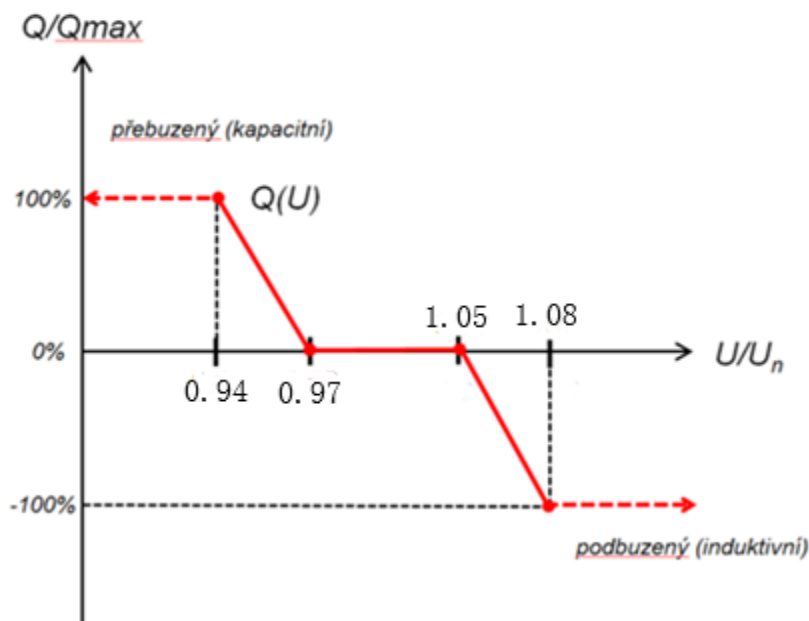


Figure 1

3. P(U) function can be set to the values of figure 2 without any need for parameterization.

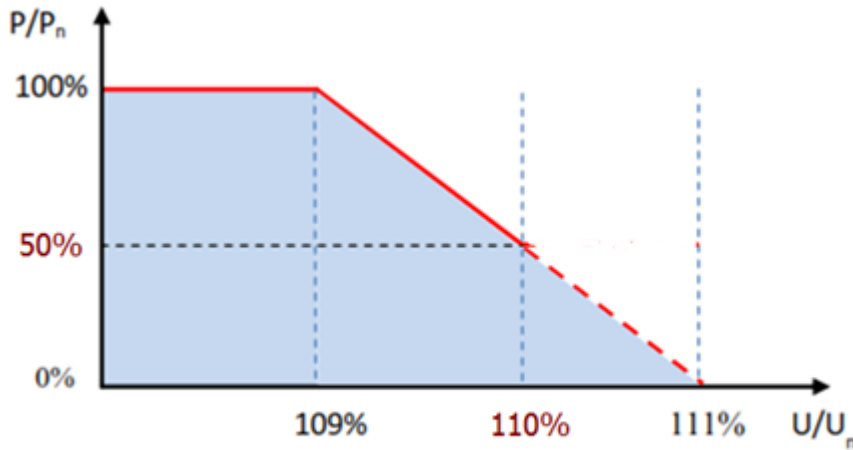
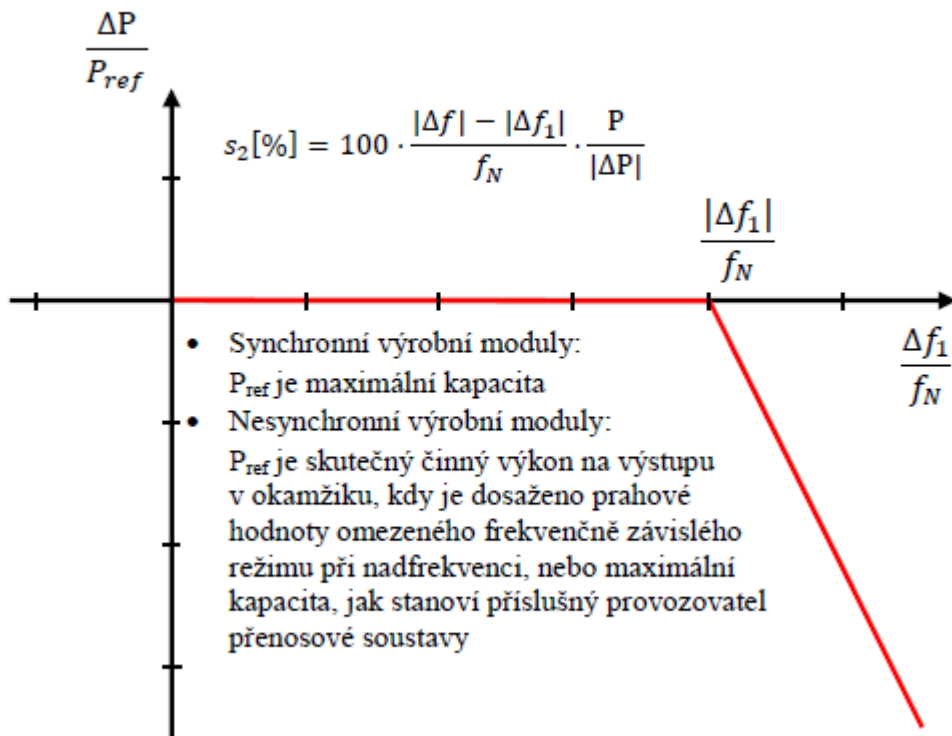


Figure 2

4. The active power response to over-frequency will be carried out according to the standard of following picture without any need for parameterization.

Defaultní prahová frekvence v ČR je 50,2 Hz, statika  $s_2 = 5\%$



**5. The increase of active power with a gradient of 10% Pn per minute according to chapter 9.5 and the reconnection limits for frequency (48,0-50,1Hz) and voltage (85%-110%Vn) as well as the monitoring time for reconnection (300s) can be fulfilled as required with the CZ setup without any need for parameterization.**

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