Voltage rise suppression

Huawei Technologies Co. Ltd.

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03	Huawei e84081311	30.11.2018	Initial version created

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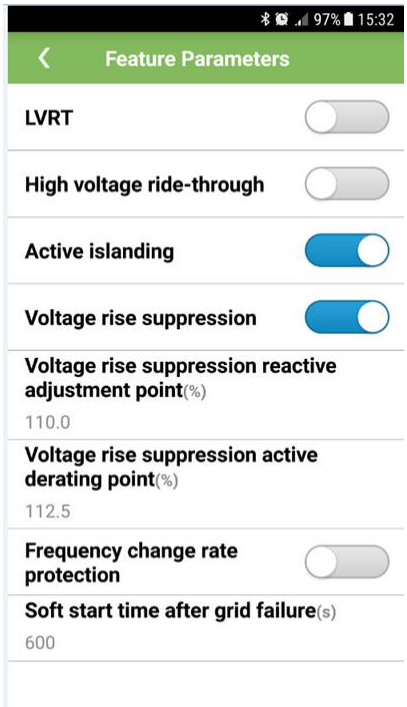
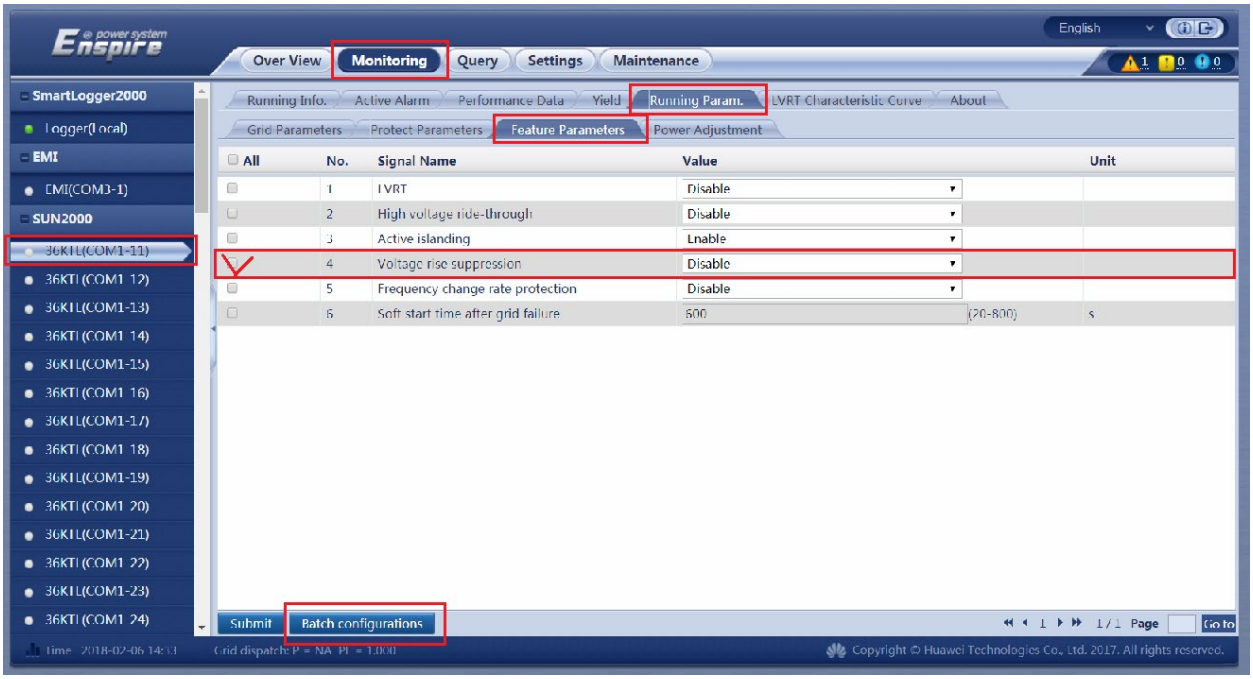
This document describe how to enable the function voltage rise suppression on inverters.
First of all this function should be enable only on the express request of grid owner, is not regular. This function will be enable, if the power plant have long distance with AC cables and can reach higher value in order to compensate this kind of networks.
If the nominal voltage of the grid is 230V, and you set as it is indicated below, the parameter *Voltage Rise Suppression Reactive Adjustment point* to 110%, that means when the AC voltage reach 253V then the Active Power start to decrease together with PF and start to produce Reactive Power (equivalent with the value of Power Factor).
If you set the second parameter *Voltage Rise Suppression Active Derating point* to 112.5%, then when the AC voltage reach 255.76V, Active Power goes to 0 and inverter stopped.
All this parameters values should be set of course under the overvoltage threshold protection of inverter, otherwise the invert will trip.

Set with SUN2000APP individual:



Set through Smartlogger1000&2000 in batch for all the inverters:

Login as special user→Monitoring menu→select one inverter→Running Param. →Feature Parameters→select the function Voltage rise suppression→Enable→Batch configuration


Enspire
Over View
Monitoring
Query
Settings
Maintenance
SmartLogger2000
Logger(Local)
EMI
EMI(COM3-1)
SUN2000
36KTL(COM1-11)
36KTL(COM1-12)
36KTL(COM1-13)
36KTL(COM1-14)
36KTL(COM1-15)
36KTL(COM1-16)
36KTL(COM1-17)
36KTL(COM1-18)
36KTL(COM1-19)
36KTL(COM1-20)
36KTL(COM1-21)
36KTL(COM1-22)
36KTL(COM1-23)
36KTL(COM1-24)
Running Info.
Active Alarm
Performance Data
Yield
Running Param.
LVRT Characteristic Curve
About
Grid Parameters
Protect Parameters
Feature Parameters
Power Adjustment
All
No.
Signal Name
Value
Unit
1 LVRT Disable
2 High voltage ride-through Disable
3 Active islanding Enable
4 Voltage rise suppression Disable
5 Frequency change rate protection Disable
6 Soft start time after grid failure 600 (20-800) s
Submit
Batch configurations
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