



# SCH275KTL

## LVRT, HVRT and FRT Register Setup

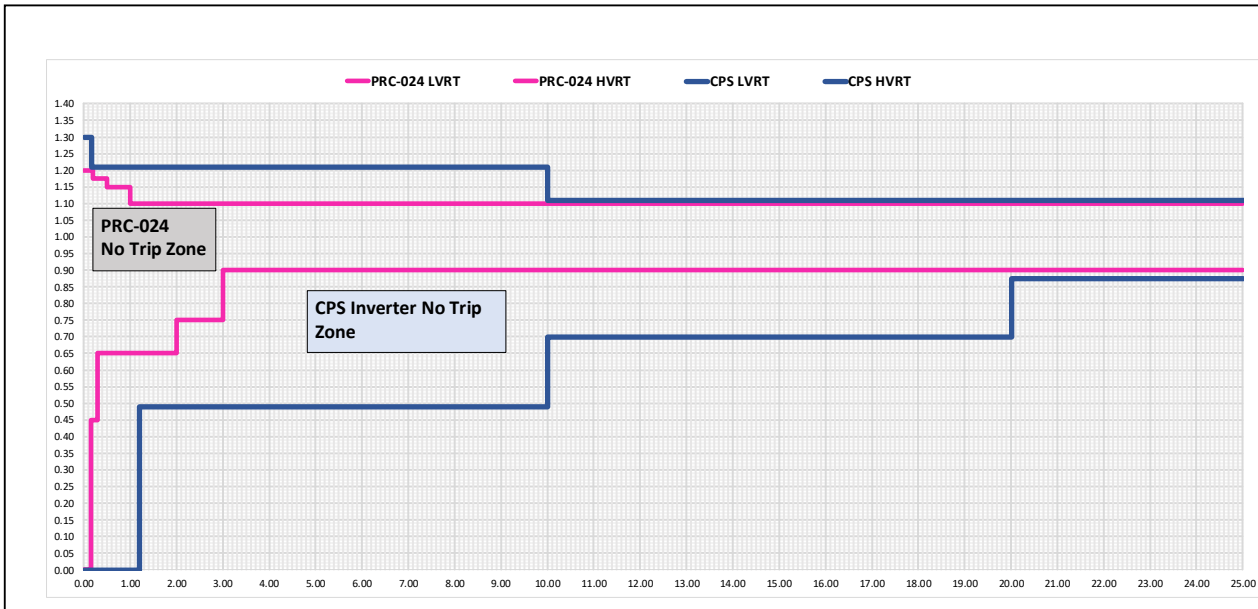


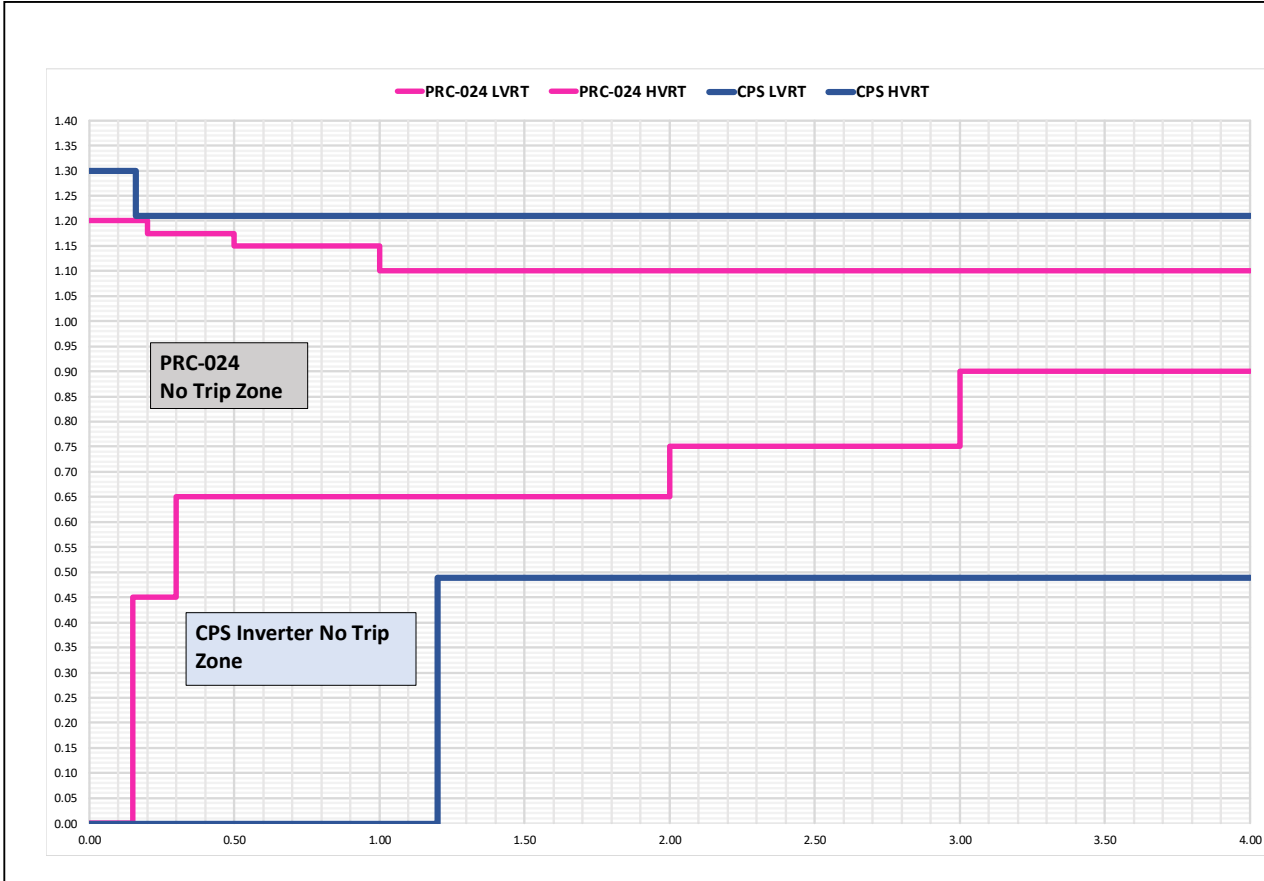
<b>Title:</b>	<b>LVRT, HVRT and FRT Setup of SCH275KTL</b>
<b>Version:</b>	Ver 1.0
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<b>Author:</b>	Igor Mogilevski
<b>Reviewed by:</b>	

### 1. Scope

This document provides inverter protection settings that complies with NERC PRC-024-3 requirements.

### 2. SCH275KTL Voltage Ride Through Setting





## 2.1 Voltage Ride Through Setting Chart

Table 2-1: Voltage Ride Through setting of SCH275KTL

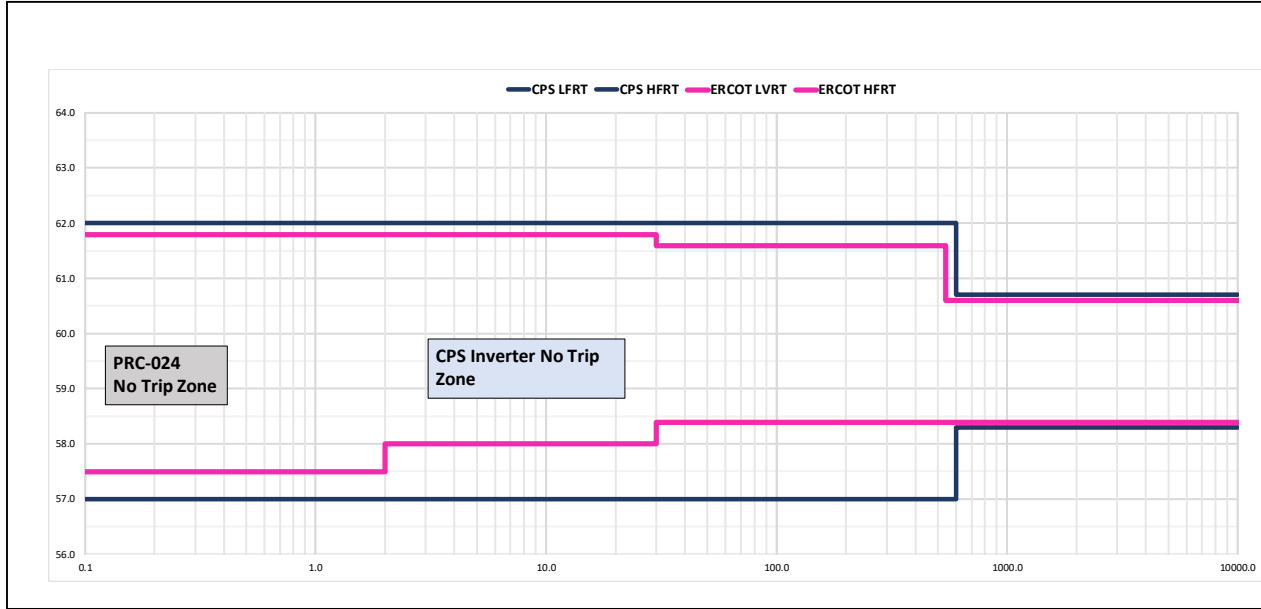
	Voltage (pu)	Trip Time(sec.)
<b>OV1</b>	$V \geq 1.30$	0.05
<b>OV2</b>	$1.21 \leq V < 1.30$	0.16
<b>OV3</b>	$1.11 \leq V < 1.21$	10.0
<b>Near Nominal</b>	$0.875 \leq V < 1.11$	Continuous Operation
<b>UV1</b>	$0.70 \leq V < 0.875$	20.0
<b>UV2</b>	$0.49 \leq V < 0.70$	10.0
<b>UV3</b>	$V < 0.49$	1.2

**Note :** All the protection value and protection time can be adjustable

## 2.2 Inverter Parameters Setting for Voltage Ride Through

Parameter Name	Setting range	Default Setting
I-Max-V.grid	840 - 1120Vac/1.05 - 1.4Un	888V/1.11Un
II-Max-V.grid	840 - 1120Vac/1.05 - 1.4Un	968V/1.21Un
III-Max-V.grid	840 - 1120Vac/1.05 - 1.4Un	1040V/1.3Un
IV-Max-V.grid	840 - 1120Vac/1.05 - 1.4Un	1040V/1.30Un
V-Max-V.grid	840 - 1120Vac/1.05 - 1.4Un	1040V/1.30Un
I-Max-V.time	0.02s~600s	10.0s
II-Max-V.time	0.02s~600s	0.16s
III-Max-V.time	0.02s~600s	0.05s
IV-Max-V.time	0.02s~600s	0.05s
V-Max-V.time	0.02s~600s	0.05s
I-Min-V.grid	80 – 760Vac/0.1 - 0.95Un	700V/0.875Un
II-Min-V.grid	80 – 760Vac/0.1 - 0.95Un	560V/0.7Un
III-Min-V.grid	80 – 760Vac/0.1 - 0.95Un	392V/0.49Un
IV-Min-V.grid	80 – 760Vac/0.1 - 0.95Un	392V/0.49Un
V-Min-V.grid	80 – 760Vac/0.1 - 0.95Un	392V/0.49Un
I-Min-V.time	0.02s~600s	20.0s
II-Min-V.time	0.02s~600s	10.0s
III-Min-V.time	0.02s~600s	1.2s
IV-Min-V.time	0.02s~600s	1.2s
V-Min-V.time	0.02s~600s	1.2s

### 3. SCH275KTL Frequency Ride Through Setting



#### 3.1 Frequency Ride Through Setting Chart

Table 3-1: Frequency protection setting of SCH275KTL

	Frequency (Hz)	Trip Time(sec.)
OF1	$f \geq 62$	0.5s
OF2	$60.7 \leq f < 62$	600s
Near Nominal	$58.3 < f < 60.7$	Continuous Operation
UF1	$57.0 < f \leq 58.3$	600s
UF2	$f \leq 57.0$	0.5s

**Note :** All the protection value and protection time can be adjustable

#### 3.2 Inverter Parameters Setting for Frequency Ride Through

Parameter Name	Setting range	Default Setting
I-Max-F.grid	60.20~65.00Hz	60.7Hz
II-Max-F.grid	60.20~65.00Hz	62.0Hz
III-Max-F.grid	60.20~65.00Hz	62.0Hz
IV-Max-F.grid	60.20~65.00Hz	62.0Hz
V-Max-F.grid	60.20~65.00Hz	62.0Hz

I-Max-F.time	0.02s~600s	600.0s
II-Max-F.time	0.02s~600s	0.50s
III-Max-F.time	0.02s~600s	0.50s
IV-Max-F.time	0.02s~600s	0.50s
V-Max-F.time	0.02s~600s	0.50s
I-Min-F.grid	55.00~59.80Hz	58.3Hz
II-Min-F.grid	55.00~59.80Hz	57.0Hz
III-Min-F.grid	55.00~59.80Hz	57.0Hz
IV-Min-F.grid	55.00~59.80Hz	57.0Hz
V-Min-F.grid	55.00~59.80Hz	57.0Hz
I-Min-F.time	0.02s~600s	600.0s
II-Min-F.time	0.02s~600s	0.50s
III-Min-F.time	0.02s~600s	0.50s
IV-Min-F.time	0.02s~600s	0.50s
V-Min-F.time	0.02s~600s	0.50s