Wels, May 04th 2021

PROTECTION LIMITS SETUP CYPRUS FRONIUS INVERTERS

Fronius International GmbH

confirms, that the following Fronius inverters

- **Fronius Galvo 1.5 - 3.1**
- **Fronius Primo 3.0 - 8.2**
- **Fronius Symo 3.0 - 20.0**
- **Fronius Eco 25.0 - 27.0**
- **Fronius Symo Hybrid 3.0 - 5.0**
- **Fronius Primo GEN24 3.0 - 6.0**
- **Fronius Primo GEN24 Plus 3.0 - 6.0**
- **Fronius Symo GEN24 3.0 – 10.0**
- **Fronius Symo GEN24 Plus 3.0 – 10.0**
- **Fronius Tauro Eco 50 – 100**
- **Fronius Tauro 50**

with

- **Setup CY**

are operating according to the German standard VDE AR N 4105 with the following adaptions according to the requirements in Cyprus.

Parameters	**Values**
Grid voltage (Line – Neutral)	184 V – 253 V
Grid frequency	47,0 Hz – 51,5 Hz
Tripping time frequency	200ms
Tripping time voltage	200ms
Loss of Mains	<5s
Active power reduction at overfrequencies starting from…	50,2 Hz with 40%/Hz
Cos phi = f(P)	1 (0% - 40%) 1 - 0,9 underexcited (40% - 100%), linear reduction
Start up / reconnection time	180 s
Reconnection Start up gradient	10%/min

For active anti-islanding protection, procedures according to DIN V VDE V 0126-1-1 are implemented inside the inverter.

Fronius International GmbH
Business Unit Solar Energy
Froniusplatz 1
A-4600 Wels

Bernhard Kossak, MSc
Head of Systems Technology