



CERTIFICATE

Applicant: Studer Innotec SA
Rue de Casernes 57
1950 Sion
Switzerland

Product: Battery storage system with optional PV inputs with integrated automatic disconnection device between a generator and the public low-voltage grid

Model: nx3 16000-48 st and nx3 16000-48 t

Intended use:

Battery storage system with optional PV inputs in accordance with EN 50549-1 with three-phase parallel coupling to the distribution network. The automatic disconnection device is an integral part of the aforementioned inverter.

Applied standards and guidelines:

SOP-9-1_15 GCC Certification Program, 09/21

Based on:

EN 50549-1:2019

Requirements for generating plants to be connected in parallel with distribution networks Part 1: Connection to a LV distribution network - Generating plants up to and including Type B

Default interface protection settings:

Parameter	Trip value [U _n or Hz]				Trip time [s]			
	Setting		Measured		Time delay Setting		Measured operate + opening time	
	L-N	L-L	L-N	L-L	L-N	L-L	L-N	L-L
Overvoltage threshold stage 2 [59>>]	1,25	1,25	1,250	1,242	0,200	0,200	0,135	0,206
Overvoltage threshold stage 1 [59>]	1,20	1,20	1,200	1,196	0,500	0,500	0,500	0,564
Overvoltage 10 min mean protection	1,10	1,10	1,100	1,100	600,0	600,0	517,2	517,2
Undervoltage threshold stage 1 [27<]	0,80	0,80	0,800	0,792	0,500	0,500	0,461	0,507
Undervoltage threshold stage 2 [27<<]	0,70	0,70	0,702	0,693	0,200	0,200	0,162	0,200
Overfrequency threshold stage 2 [81>>]	51,50	51,50	51,50	51,50	0,200	0,200	0,191	0,191
Overfrequency threshold stage 1 [81>]	51,00	51,00	51,00	51,00	1,000	1,000	1,000	1,000
Underfrequency threshold stage 1 [81<]	48,00	48,00	48,00	48,00	1,000	1,000	0,997	0,997
Underfrequency threshold stage 2 [81<<]	47,50	47,50	47,50	47,50	0,200	0,200	0,192	0,192

The safety concept of an aforementioned representative products corresponds at the time of issue of this certificate to the valid safety specifications for the specified use in accordance with regulations.

Report No: 21PP474-03_0

Certificate No: 21-452-00

Date of issue: 2021-12-14

Kiwa Primara GmbH
Gewerbestraße 28
87600 Kaufbeuren
Germany
Tel. +49 8341 99726-0
info@primara.net
www.kiwa.de



Raphael Rader
Certification Engineer

