LYNS-<mark>TCi</mark>

Verification No.: 221103BWA128-EG-IT-C003

Date of issue: 2023-04-06

Applicant:	NingBo Deye Inverter Technology Co., Ltd. No. 26 South YongJing Road, Daqi, Beilun, NingBo, China				
Device Category:	Inverter				
Device Type:	Hybrid (PV with DC coupled Electricity Storage)				
Model(s):	SUN-3K-SG03LI	SUN-3K-SG03LP1-EU		SUN-3.6K-SG03LP1-EU	
	SUN-5K-SG03LP1-EU		SUN-6K-SG03LP1-EU		
Trademark:	Deye	I			
Technical data:	Product family: SUN-3~6K-SG03LP1-EU			U	
	(For further details	see A.2 Technical c	lata of the Generatii	ng Unit(s) on p.2)	
Software version:	Ver0108				
Grid connection code:	CEI 0-21: 2022 Technical reference rule for the connection of active and passive users to the LV electricity distribution networks of companies.				
	Topology of the device, which this certificate is based on:				
	INTERFACE DEVICE	PROTECTION INTERFACE	STATIC ELECTRONIC INVERTER	ROTATING GENERATION MACHINE	
	X	X	x		
	Indicate with one \mathbf{x} the field or fields to which the declaration refers.				
	PHASE NUMBER: single-phase				
	Note: The device is able to limit the lab to 0.5% of the nominal summer t				
	The device is able to limit the ldc to 0.5% of the nominal current. The device is for plants of each power.				
				ninal current.	
	The device is fo The inverters of maximum appar be able to reach factor, it is neces		ower. erter Technology (the case where a condition a determ aximum active pov	Co., Ltd. have a system should hined power wer in such a	
Test report no.:	The device is fo The inverters of maximum appar be able to reach factor, it is neces way, that you ca	r plants of each po NingBo Deye Inve ent power limit. In in every working o ssary to set the ma	ower. erter Technology (the case where a condition a determ aximum active pow e the cos-phi wan	Co., Ltd. have a system should hined power wer in such a	

This verification confirms that the above-mentioned generating unit(s) with corresponding software meet the requirements of the referenced grid connection code at the time the tests were conducted.



Jack Shi Sr. Project Manager

This document shall not be reproduced, except in full, without the written approval of Guangdong HuaChuang Technology Service Co., Ltd. Information given in this document, are related to the tested specimen of the described electrical sample. Guangdong HuaChuang Technology Service Co., Ltd.

Address: Room 815, No.122, Houjie Road (West), Houjie Town, Dongguan City, Guangdong, 523960, People's Republic of China Tel: +86 769 85598986 E-Mail: service-hc@huachuang-ts.com Web: www.huachuang-ts.com Page 1 of 3

LYNS-TC:

Annex to the Verification No.: 221103BWA128-EG-IT-C003

A.1 Revision history of the verification

Revision	Date	Changes	Status
0 (221103BWA128-EG-IT-C003)	2023-04-06	Initial issue	Active

A.2 Technical data of the Generating Unit(s)

Model	SUN-3K-SG03LP1-EU	SUN-3.6K-SG03LP1-EU		
DC input (PV)				
Max. DC input voltage [V]	500			
Operating MPPT voltage range [V]	150 ~ 450			
Input DC current [A]	max. 13	max. 13 / 13		
Battery connection	•	· ·		
Battery voltage range [V]	48 ((40-60)		
Battery charging and discharging current [A]	max. 70	max. 90		
Battery charging and discharging power [kW]	3,3	3,96		
AC connection				
Nominal output AC voltage [V]	230/400 (L +	N + PE, 50 Hz)		
Output AC current [A]	max. 14,3	max. 17,2		
Nominal active output power Pn [kW]	3,0	3,6		
Max. apparent power [kVA]	3,3	3,96		
Model	SUN-5K-SG03LP1-EU	SUN-6K-SG03LP1-EU		
DC input (PV)	I			
Max. DC input voltage [V]		500		
Operating MPPT voltage range [V]	150) ~ 450		
Input DC current [A]	max.	. 13 / 13		
Battery connection				
Battery voltage range [V]	48 (40-60)			
Battery charging and discharging current [A]	max. 120	max. 135		
Battery charging and discharging power [kW]	23,9	28,7		
AC connection				
Nominal output AC voltage [V]	230/400 (L + N + PE, 50 Hz)			
Output AC current [A]	max. 21,7	max. 26,1		
Nominal active output power P_n [kW]	5,0	6,0		
Max. apparent power [kVA]	5,5	6,6		
Software version	Ver0108			
Factory's name	NingBo Deye Inverter Technology C	o., Ltd.		
Factory address	No. 26 South YongJing Road, Daqi, Beilun, NingBo, China			
Testing laboratory	Guangdong HuaChuang Technology Service Co., Ltd. Room 815, No.122, Houjie Road (West), Houjie Town, Dongguan City, Guangdong, 523960, P.R. China (Accredited acc. ISO/IEC 17025: A2LA Accreditation no. 5200.02)			
Testing location	Same as above			
Date(s) of performance of tests	2022-11-07 to 2023-03-30			

LYNS-TC:

Annex to the Verification No.: 221103BWA128-EG-IT-C003

A.3 Batteries that can be used with the static converters listed above

Brand	V-TAC EXPORTS LIMITED
Technology	Secondary (Rechargeable) Lithium Battery
Model	VT48200B
CUS module [kWh]	7,68
Firmware version BMS	Ver:9.3
No. modules	1 ~ 15
Note	The batteries are not integrated in the converter and must be installed according to local regulations.