

# Certificate of Conformity

Certificate Number: CN-PVES-240249

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

<b>Applicant:</b>	NingBo Deye Inverter Technology Co., Ltd. No. 26 South Yongjiang Road, Daqi, Beilun, NingBo, China
<b>Product:</b>	Grid-Connected PV Inverter
<b>Ratings &amp; Principle Characteristics:</b>	See appendix of Certificate of Conformity
<b>Model:</b>	SUN-18K-G04, SUN-20K-G04, SUN-25K-G04, SUN-30K-G04, SUN-33K-G04, SUN-35K-G04, SUN-36K-G04, SUN-18K-G04-LV, SUN-20K-G04-LV, SUN-21K-G04-LV
<b>Brand Name&lt;s&gt;:</b>	<b>Deye</b>
<b>Product Complies with:</b>	IEC 62109-1:2010, EN 62109-1:2010 IEC 62109-2:2011, EN 62109-2:2011
<b>Certificate Issuing Office Name &amp; Address:</b>	Intertek Testing Services Ltd. Shanghai West Area, 2 <sup>nd</sup> Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
<b>Test Report No.&lt;s&gt;:</b>	2405B1586SHA-001, 2405B1586SHA-002

Additional information in Appendix.

## Signature

**Certification Manager: Qiao Qiao**  
**Date: 07 June 2024**



PRD N° 306B

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240249

### Ratings & Principle Characteristics:

Model		SUN-18K-G04	SUN-20K-G04	SUN-25K-G04
DC INPUT SIDE	V <sub>MAX</sub> Input [Vd.c.]	1100	1100	1100
	I <sub>sc</sub> PV[Ad.c.]	48+48	48+48	48+48
	Input Voltage Range [Vd.c.]	250-1100	250-1100	250-1100
	Maximum DC Input Current [Ad.c.]	32+32	32+32	32+32
	MPPT Full Power Voltage Range[Vd.c.]	500-850	500-850	550-850
	Start PV Voltage [Vdc]	250	250	250
	Backfeed Current [A]	0	0	0
	Overvoltage Category (OVC)	II	II	II
AC OUTPUT SIDE	Rated Output Voltage U <sub>r</sub> [Va.c.]	3L/N/PE,220/380,230/400		
	Rated Output Frequency F <sub>NETZ</sub> [Hz]	50/60	50/60	50/60
	Rated Output Power P <sub>E</sub> [kW]	18	20	25
	Maximum Output Power [kW]	19.8	22	27.5
	Max.Output Apparent Power[kVA]	19.8	22	27.5
	Rated. Output Current I <sub>r</sub> [Aa.c.]	27.3/26.1A	30.3/29A	37.9/36.2A
	Max. Output Current I <sub>max</sub> [Aa.c.]	30/28.7A	33.3/31.9A	41.7/39.8A
	Power Factor cosφ [λ]	-0.8 to 0.8		
	Overvoltage Category (OVC)	III		
SYSTEM	Protective Class	I		
	Enclosure Protection (IP)	IP65		
	Operating Temperature Range [°C]	-25 to + 60 , >45°C derating		
	Pollution degree (PD)	PD 3		
	Altitude [m]	4000		
	Weight [kg]	28.7		
	Dimension [WxHxD (mm)]	330*572*206		
	Type of inverter	non isolated		
Firmware version	5412-0324			

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Model		SUN-30K-G04	SUN-33K-G04	SUN-35K-G04	SUN-36K-G04
DC INPUT SIDE	V <sub>MAX</sub> Input [Vd.c.]	1100	1100	1100	1100
	I <sub>sc</sub> PV[Ad.c.]	60+60	60+60	60+60	60+60
	Input Voltage Range [Vd.c.]	250-1100	250-1100	250-1100	250-1100
	Maximum DC Input Current [Ad.c.]	40+40	40+40	40+40	40+40
	MPPT Full Power Voltage Range[Vd.c.]	480-850	480-850	500-850	500-850
	Start PV Voltage [Vdc]	250	250	250	250
	Backfeed Current [A]	0	0	0	0
	Overvoltage Category (OVC)	II	II	II	II
AC OUTPUT SIDE	Rated Output Voltage Ur [Va.c.]	3L/N/PE,220/380,230/400			
	Rated Output Frequency F <sub>NETZ</sub> [Hz]	50/60	50/60	50/60	50/60
	Rated Output Power P <sub>E</sub> [kW]	30	33	35	36
	Maximum Output Power [kW]	33	36.3	38.5	39.6
	Max.Output Apparent Power[kVA]	33	36.3	38.5	39.6
	Rated. Output Current I <sub>r</sub> [Aa.c.]	45.5/43.5	50/47.8	53/50.7	54.5/52.2
	Max. Output Current I <sub>max</sub> [Aa.c.]	50/47.9	55/52.6	58.3/55.8	60/57.4
	Power Factor cosφ [λ]	-0.8 to 0.8			
	Overvoltage Category (OVC)	III			
SYSTEM	Protective Class	I			
	Enclosure Protection (IP)	IP65			
	Operating Temperature Range [°C]	-25 to + 60, >45°C derating			
	Pollution degree (PD)	PD 3			
	Altitude [m]	4000			
	Weight [kg]	28.7			
	Dimension [WxHxD (mm)]	330*572*206			
	Type of inverter	non isolated			
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Model		SUN-18K-G04-LV	SUN-20K-G04-LV	SUN-21K-G04-LV
DC INPUT SIDE	V <sub>MAX</sub> Input [Vd.c.]	800	800	800
	I <sub>sc</sub> PV[Ad.c.]	60+60	60+60	60+60
	Input Voltage Range [Vd.c.]	250-800	250-800	250-800
	Maximum DC Input Current [Ad.c.]	40+40	40+40	40+40
	MPPT Full Power Voltage Range[Vd.c.]	250-700	300-700	300-700
	Start PV Voltage [Vdc]	250	250	250
	Backfeed Current [A]	0	0	0
	Overvoltage Category (OVC)	II	II	II
AC OUTPUT SIDE	Rated Output Voltage Ur [Va.c.]	3L/N/PE,127/220,133/230		
	Rated Output Frequency F <sub>NETZ</sub> [Hz]	50/60	50/60	50/60
	Rated Output Power P <sub>E</sub> [kW]	18	20	21
	Maximum Output Power [kW]	18	20	21
	Max.Output Apparent Power[kVA]	18	20	21
	Rated. Output Current I <sub>r</sub> [Aa.c.]	47.3/45.2	52.5/50.2	55.2/52.7
	Max. Output Current I <sub>max</sub> [Aa.c.]	47.3/45.2	52.5/50.2	55.2/52.7
	Power Factor cosφ [λ]	-0.8 to 0.8		
	Overvoltage Category (OVC)	III		
SYSTEM	Protective Class	I		
	Enclosure Protection (IP)	IP65		
	Operating Temperature Range [°C]	-25 to + 60 , >45°C derating		
	Pollution degree (PD)	PD 3		
	Altitude [m]	4000		
	Weight [kg]	28.7		
	Dimension [WxHxD (mm)]	330*572*206		
	Type of inverter	non isolated		
	Firmware version	5412-0324		

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