

## 20KVA off grid three phase inverter technical parameters

Type		NB48-20KSZ	NB96-20KSZ	NB120-20KSZ	NB240-20KSZ
DC input	Input rated voltage	48 V <sub>DC</sub>	96 V <sub>DC</sub>	120 V <sub>DC</sub>	240 V <sub>DC</sub>
	Input rated current	463 A	231 A	185 A	93 A
	Input DC voltage range	40-62V <sub>DC</sub>	80-124 V <sub>DC</sub>	100-155 V <sub>DC</sub>	200-310 V <sub>DC</sub>
AC input (AC Bypass)	Allow input voltage range	220 V <sub>AC</sub> / 380 V <sub>AC</sub> / 400 V <sub>AC</sub> ± 15% V <sub>AC</sub>			
	Input rated current	55.5A / 30A / 29A			
	Bypass transfer time	≤100 ms (Can be customized ≤ 4ms version)			
AC output	Rated capacity	20KVA			
	Output rated power	16KW			
	Output rated voltage and frequency	220 V <sub>AC</sub> / 380 V <sub>AC</sub> / 400 V <sub>AC</sub> , 50Hz / 60Hz			
	Output rated current	55.5A / 30A / 29A			
	Output voltage accuracy	220 V <sub>AC</sub> / 380 V <sub>AC</sub> / 400 V <sub>AC</sub> ±2%			
	Output frequency accuracy	50Hz / 60Hz ± 0.05%			
	Waveform distortion (THD). (Linear load)	≤3%			
	Dynamic response time (Load 0←→100%)	2ms			
	Power factor (PF)	0.8			
	Overload capacity	120%,10minutes, 200% ,10seconds			
	Crest factor (CF)	3:1			
	Inverter efficiency	90%			
Working Environment	Dielectric strength	1500VAC,1minute			
	Noise (1m)	≤50dB			
	Ambient temperature	-10°C~+50°C			
	Humidity	0~90%, No condensation			
	Altitude	< 2000m (Higher than 2000m rated power should be reduced)			
Production function	Input reverse protection, input under-voltage protection, output overload protection, output short circuit protection, thermal protection				
Pure Sine Wave	Yes				
Equipped with copper transformer	Yes				
Solar Charger	Optional, available				
AC Charger	Optional, available				
Generator Port	Optional, available				
Size(mm)	520×1160×1350 mm				
Weight(kg)	280 kg				



# C E R T I F I C A T E

## ATTESTATION CERTIFICATE OF ELECTROMAGNETIC COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.

2014/30/EU Electromagnetic Compatibility Directive and  
2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Jinan Deming Power Equipment Co., Ltd.

Company Address : North Erhuan Road, No. 8666, Kangqiao Development Center,  
Building 2, Jinan, Shandong, China

Related Directives and Annex : 2014/35/EU Low Voltage Directive  
2014/30/EU Electromagnetic Compatibility Directive

Related Standards : EN 61727:1996; EN 62368-1:2020+A11:2020; EN 55032:2015+A1:2020  
EN 62116:2014 EN 50561-1:2013; EN 55035:2017+A11:2020  
EN 61000-3-3:2013+A1:2019; EN 61000-3-2:2019  
EN 61000-3-12:2011; EN 61000-3-11:2019

Product Name : Inverter

Report No and Date : TCF-03-2020500-LVD TCF-03-2020500-EMC

Product Brand/Model/Type : 1KW, 2KW, 3KW, 5KW, 10KW, 20KW, 30KW, 45KW, 50KW, 60KW,  
75KW, 100KW, 150KW, 200KW, 250KW, 300KW, 800KW, 1000KW

Certificate Number : M.2021.206.C63145

Initial Assessment Date : 26.03.2021

Registration Date : 29.03.2021

Reissue Date/No : -

Expiry Date : 28.03.2026

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