

## 20KVA off grid single phase inverter technical parameters

| Type                               |   | NB48-20KDZ  | NB96-20KDZ             | NB120-20KDZ             | NB240-20KDZ             |
|------------------------------------|---|---|------------------------|-------------------------|-------------------------|
| 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  | 40-62 V <sub>DC</sub>   | 80-124 V <sub>DC</sub> | 100-155 V <sub>DC</sub> | 200-310 V <sub>DC</sub> |
| AC input<br>(AC Bypass)            | Allow input voltage range   | 110 V <sub>AC</sub> / 120 V <sub>AC</sub> / 220 V <sub>AC</sub> / 240 V <sub>AC</sub> ± 15% V <sub>AC</sub> |                        |                         |                         |
|                                    | Input rated current   | 182A / 167A / 91 A / 83A  |                        |                         |                         |
|                                    | Bypass transfer time  | ≤100 ms (Can be customized ≤ 4ms version)   |                        |                         |                         |
| AC output                          | Rated capacity  | 20KVA   |                        |                         |                         |
|                                    | Output rated power  | 16KW  |                        |                         |                         |
|                                    | Output rated voltage and frequency  | 110 V <sub>AC</sub> / 120 V <sub>AC</sub> / 220 V <sub>AC</sub> / 240 V <sub>AC</sub> , 50Hz / 60Hz         |                        |                         |                         |
|                                    | Output rated current  | 182A / 167A / 91 A / 83A  |                        |                         |                         |
|                                    | Output voltage accuracy   | 110 V <sub>AC</sub> / 120 V <sub>AC</sub> / 220 V <sub>AC</sub> / 240 V <sub>AC</sub> ± 1%                  |                        |                         |                         |
|                                    | Output frequency accuracy   | 50Hz / 60Hz ± 0.05%   |                        |                         |                         |
|                                    | Waveform distortion (THD).<br>(Linear load)   | ≤3%   |                        |                         |                         |
|                                    | Dynamic response time<br>(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 |   |                        |                         |                         |
| Equipped with isolated transformer |   | Yes   |                        |                         |                         |
| Pure Sine Wave                     |   | Yes   |                        |                         |                         |
| AC Charger                         |   | Available, optional   |                        |                         |                         |
| Solar Battery Charger              |   | Available, optional   |                        |                         |                         |
| Dry Contact                        |   | Available. optional   |                        |                         |                         |
| Size                               | 610*950*1300mm  |   |                        |                         |                         |
| Weight                             | 210kg   |   |                        |                         |                         |



# 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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