10KW-30KW

Technical parameters of bidirectional inverter 10KW-30KW

|  |  |  |  |
| --- | --- | --- | --- |
| **AC Side parameters** | | | |
| Operation mode | Continuous | | |
| AC wiring mode | Three phase four wire | | |
| Rated output power | 10KW | 20KW | 30KW |
| Output overload capacity | 11KW | 22KW | 33KW |
| **DC Side Parameters** | | | |
| Maximum DC power | 11KW | 22KW | 33KW |
| DC voltage range Vdc | 200-800Vdc | 200-800Vdc | 200-800Vdc |
| Voltage accuracy | ±1% | ±1% | ±1% |
| Steady flow accuracy | ±1% | ±1% | ±1% |
| DC current ripple | <5% IPP | <5% IPP | <5% IPP |
| **On Grid charging and discharging mode**  Constant power | | | |
| Rated grid voltage（AC） | 220V / 380V / 440V | 220V / 380V / 440V | 220V / 380V / 440V |
| Grid voltage range | ±20% | ±20% | ±20% |
| Rated grid frequency | 50Hz / 60Hz | 50Hz / 60Hz | 50Hz / 60Hz |
| Grid frequency range | ±10% | ±10% | ±10% |
| Rated power（THD） | <3% (Standard grid) | | |
| Power factor | ≥0.99 ( Rated power) | | |
| **Independent inverter mode** | | | |
| Rated output voltage（AC） | 220V / 380V / 440V±1% | | |
| Output voltage distortion | <1% ( resistive load) | | |
| Rated output frequency | 50Hz / 60Hz ±1% | | |
| Voltage transition range | <10% (Resistance load 0% <=>100%) | | |
| Load imbalance | 100% | | |
| **System Parameters** | | | |
| Max. conversion efficiency | 97% | | |
| Noise | <60dB | | |
| Protection Degree | IP21 | | |
| Working Temperature | －25℃～+45℃ | | |
| Cooling method | Air cooling | | |
| Working humidity | 0～95% | | |
| Working altitude | ≤6000m, 2000m（Reduced usage for more than 2000m） | | |
| Emergency stop | Yes (via emergency stop button) | | |
| Display | Touch screen | | |
| Communication mode | RS485、WIFI、GPRS、Ethernet (Modbus protocol) | | |
| Dimensions | 690\*275\*770mm | 690\*275\*770mm | 690\*275\*770mm |
| Weight | 42KG | 58KG | 65KG |

\*Above parameter only for reference. Could be custom made to user specifications.

50KW-200KW

Technical parameters of bidirectional inverter 50KW-200KW

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| --- | --- | --- | --- |
| **AC Side parameters** | | | |
| Operation mode | Continuous | | |
| AC wiring mode | Three phase four wire | | |
| Rated output power | 50KW | 100KW | 200KW |
| Output overload capacity | 55KW | 110KW | 220KW |
| **DC Side Parameters** | | | |
| Maximum DC power | 55KW | 110KW | 220KW |
| DC voltage range Vdc | 200-800Vdc | 400-800Vdc | 400-800V dc |
| Voltage accuracy | ±1% | ±1% | ±1% |
| Steady flow accuracy | ±1% | ±1% | ±1% |
| DC current ripple | <5% IPP | <5% IPP | <5% IPP |
| **On Grid charging and discharging mode**  Constant power | | | |
| Rated grid voltage（AC） | 220V / 380V / 440V | 220V / 380V / 440V | 220V / 380V / 440V |
| Grid voltage range（AC） | ±20% | ±20% | ±20% |
| Rated grid frequency | 50Hz / 60Hz | 50Hz / 60Hz | 50Hz / 60Hz |
| Grid frequency range | ±10% | ±10% | ±10% |
| Rated power（THD） | <3%（Standard grid） | | |
| Power factor | ≥0.99 ( Rated power) | | |
| **Independent inverter mode** | | | |
| Rated output voltage（AC） | 220V / 380V / 440V±1% | | |
| Output voltage distortion | <3% ( resistive load) | | |
| Rated output frequency | 50Hz / 60Hz±1% | | |
| Voltage transition range | <10% (Resistance load 0% <=>100%) | | |
| Load imbalance | 100% | | |
| **System Parameters** | | | |
| Max. conversion efficiency | 95%（ Include isolation transformer） | | |
| Noise | <60dB | | |
| Protection Degree | IP20 | | |
| Working Temperature | －25℃～+45℃ | | |
| Cooling method | Air cooling | | |
| Working humidity | 0～95% | | |
| Working altitude | ≤6000m, 2000m（Reduced usage for more than 2000m） | | |
| Emergency stop | Yes (via emergency stop button) | | |
| Display | Touch screen | | |
| Communication mode | RS485、WIFI、GPRS、Ethernet (Modbus protocol) | | |
| Dimensions | 750\*600\*1320mm | 1460\*860\*1820mm | 1460\*860\*1820mm |
| Weight | 340KG | 1.4t | 1.6t |

\*Above parameter only for reference. Could be custom made to user specifications.

300KW-1000KW

Technical parameters of bidirectional inverter 300KW-1000KW

|  |  |  |  |
| --- | --- | --- | --- |
| **AC Side parameters** | | | |
| Operation mode | Continuous | | |
| AC wiring mode | Three phase four wire | | |
| Rated output power | 300KW | 500KW | 1000KW |
| Output overload capacity | 330KW | 550KW | 1100KW |
| **DC voltage range** | | | |
| Maximum DC power | 330KW | 550KW | 1100KW |
| DC voltage range Vdc | 400-800V dc | 600-900V dc | 600-900V dc |
| Voltage accuracy | ±1% | ±1% | ±1% |
| Steady flow accuracy | ±1% | ±1% | ±1% |
| DC current ripple | <5% IPP | <5% IPP | <5% IPP |
| **On Grid charging and discharging mode**  Constant power | | | |
| Rated grid voltage（AC） | 220V / 380V / 440V | 220V / 380V / 440V | 220V / 380V / 440V |
| Grid voltage range（AC） | ±20% | ±20% | ±20% |
| Rated grid frequency | 50Hz / 60Hz | 50Hz / 60Hz | 50Hz / 60Hz |
| Grid frequency range | ±10% | ±10% | ±10% |
| Rated power（THD） | <4%（Standard grid） | | |
| Power factor | ≥0.99 ( Rated power) | | |
| **Independent inverter mode** | | | |
| Rated output voltage（AC） | 220V / 380V / 440V±1% | | |
| Output voltage distortion | <3% ( resistive load) | | |
| Rated output frequency | 50Hz / 60Hz ±1% | | |
| Voltage transition range | <10% (Resistance load 0% <=>100%) | | |
| Load imbalance | 100% | | |
| **System Parameters** | | | |
| Max. conversion efficiency | 95%（ Include isolation transformer） | | |
| Noise | <60dB | | |
| Protection Degree | IP20 | | |
| Working Temperature | －25℃～+45℃ | | |
| Cooling method | Air cooling | | |
| Working humidity | 0～95% | | |
| Working altitude | ≤6000m, 2000m（Reduced usage for more than 2000m） | | |
| Emergency stop | Yes (via emergency stop button) | | |
| Display | Touch screen | | |
| Communication mode | RS485、WIFI、GPRS、Ethernet (Modbus protocol) | | |
| Dimensions | 2010\*1060\*2000mm | 2800\*1200\*2000mm | 4000\*1200\*2000mm |
| Weight | 1.5t | 2.5t | 4t |

\*Above parameter only for reference. Could be custom made to user specifications.