



# SUPERIOR SERIE



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# SUPERIOR SERIES



**ON-LINE  
3 PHASE INPUT  
3 PHASE OUTPUT**

## General Features

- IGBT rectifier
- IGBT Inverter
- DSP-controlled processor
- Active power factor correction, PFC (PF 0.99)
- Active harmonic correction (THDi  $\leq$  4%)
- Wide input voltage range
- Compatibility with generators
- Backup and power increase capability through parallel operation
- Intelligent battery charging system
- Easy synchronization with external sources
- Standard static and manual bypass
- Galvanic isolation and special voltage application options
- Communication capabilities with computer and network systems (SNMP)
- Extendable battery backup time
- Low installation and operating costs

## Indicators and Communication

- LED display: Grid, Bypass, Battery, Inverter, Load, Fault Indicators
- LCD display: Load Percentage, Input-Output Frequency, Voltage-Current, Bypass Voltage, Battery Voltage and Current, Temperature, and Alarms
- Interface (communication port): RS232
- Dry contact connection: Grid outage, Low battery, Bypass operation, Output fault
- EPO (Emergency Power Off) button, generator interface

## Environmental Conditions

- Storage Temperature (°C): -25°C - +55°C (15-40°C recommended for extended battery life)
- Operating Temperature Range (°C): 0-40°C (20-25°C recommended for extended battery life)
- Humidity: 0-95% (non-condensing)
- Operating Altitude (maximum m.): 1000m
- Protection Class: IP20

| Model  | JSD 33010   | JSD 33015 | JSD 33020 | JSD 33030    | JSD 33040 | JSD 33045 | JSD 33060    | JSD 33080 |
|--|---|-----------|-----------|--------------|-----------|-----------|--------------|-----------|
| Output Power (kVA)   | 10  | 15        | 20        | 30           | 40        | 45        | 60           | 80        |
| Nominal Active Power (kW)  | 8   | 12        | 16        | 24           | 32        | 36        | 48           | 64        |
| <b>Input</b>   |   |           |           |              |           |           |              |           |
| Phase Number   | 3f+N+PE   |           |           |              |           |           |              |           |
| Nominal Voltage  | 380V/400V/415V  |           |           |              |           |           |              |           |
| Voltage Tolerance (at 100% load)   | -%15 + %27  |           |           |              |           |           |              |           |
| Voltage Tolerance (at 64% load)  | -%45 + %27  |           |           |              |           |           |              |           |
| Voltage Tolerance (at 42% load)  | -%64 + %27  |           |           |              |           |           |              |           |
| Nominal Frequency (Hz)   | 50Hz/ 60Hz  |           |           |              |           |           |              |           |
| Frequency Tolerance (during online operation)  | ±%10  |           |           |              |           |           |              |           |
| Input Current THD*   | ≤%4   |           |           |              |           |           |              |           |
| Input Power Factor   | 0.99  |           |           |              |           |           |              |           |
| <b>Output</b>  |   |           |           |              |           |           |              |           |
| Phase Number   | 3f+N+PE   |           |           |              |           |           |              |           |
| Output Power Factor  | 0,8   |           |           |              |           |           |              |           |
| Nominal Voltage  | 380V/400V/415V  |           |           |              |           |           |              |           |
| Static voltage regulation at 100% load (linear load, online-battery mode)  | <%1   |           |           |              |           |           |              |           |
| Voltage THD (linear load)  | <%3   |           |           |              |           |           |              |           |
| Crest Factor   | 3:1   |           |           |              |           |           |              |           |
| Frequency (Hz)   | 50Hz/60Hz   |           |           |              |           |           |              |           |
| Frequency Tolerance  | ±%0.01  |           |           |              |           |           |              |           |
| Overload   | 10 minutes at 125% load, 1 minute at 15% load                       |           |           |              |           |           |              |           |
| Efficiency*  | Until 94%   |           |           |              |           |           |              |           |
| <b>Static Bypass Line</b>  |   |           |           |              |           |           |              |           |
| Phase Number   | 3f+N+PE   |           |           |              |           |           |              |           |
| Voltage Tolerance for bypass operation   | ±%10  |           |           |              |           |           |              |           |
| Frequency Tolerance for bypass operation   | 47 Hz – 53 Hz (Adjustable)  |           |           |              |           |           |              |           |
| <b>Battery</b>   |   |           |           |              |           |           |              |           |
| Type   | Maintenance-free dry type   |           |           |              |           |           |              |           |
| Number of Batteries  | Adjustable between 30 to 48 batteries                               |           |           |              |           |           |              |           |
| Battery Protection   | Deep discharge protection, Temperature-compensated battery charging |           |           |              |           |           |              |           |
| Battery Test   | Standard (Automatic and Manual)                                     |           |           |              |           |           |              |           |
| <b>Physical Features</b>   |   |           |           |              |           |           |              |           |
| Output Power (kVA)   | 10  | 15        | 20        | 30           | 40        | 45        | 60           | 80        |
| Dimensions WxDxH (mm)  | 400x780x1070  |           |           | 520x900x1300 |           |           | 670x730x1630 |           |
| Weight (kg)  | 100   | 114       | 116       | 122          | 180       | 202       | 253          |           |
| <b>Options</b>   |   |           |           |              |           |           |              |           |
| Parallel Kit, SNMP (Internal or External), External bypass, Remote monitoring panel, Isolation Transformer, Battery cabinet, IP21 protection class |   |           |           |              |           |           |              |           |

\*Dependent on device power and environmental conditions.

| Model  | JSD 33100   | JPD 33120    | JPD 33160    | JPD 33200                           | JPD 33250      | JPD 33300 | JPD 33400 |
|--|---|--------------|--------------|-------------------------------------|----------------|-----------|-----------|
| Output Power (kVA)   | 100   | 120          | 160          | 200                                 | 250            | 300       | 400       |
| Nominal Active Power (kW)  | 80  | 96           | 128          | 160                                 | 200            | 240       | 320       |
| <b>Input</b>   |   |              |              |                                     |                |           |           |
| Phase Number   | 3f+N+PE   |              |              |                                     |                |           |           |
| Nominal Voltage  | 380V/400V/415V  |              |              |                                     |                |           |           |
| Voltage Tolerance (at 100% load)   | -%15 + %27  |              |              |                                     |                |           |           |
| Voltage Tolerance (at 64% load)  | -%45 + %27  |              |              |                                     |                |           |           |
| Voltage Tolerance (at 42% load)  | -%64 + %27  |              |              |                                     |                |           |           |
| Nominal Frequency (Hz)   | 50Hz/ 60Hz  |              |              |                                     |                |           |           |
| Frequency Tolerance (during online operation)  | ±%10  |              |              |                                     |                |           |           |
| Input Current THD*   | ≤%4   |              |              |                                     |                |           |           |
| Input Power Factor   | 0.99  |              |              |                                     |                |           |           |
| <b>Output</b>  |   |              |              |                                     |                |           |           |
| Phase Number   | 3f+N+PE   |              |              |                                     |                |           |           |
| Output Power Factor  | 0,8   |              |              |                                     |                |           |           |
| Nominal Voltage  | 380V/400V/415V  |              |              |                                     |                |           |           |
| Static voltage regulation at 100% load (linear load, online-battery mode)  | <%1   |              |              |                                     |                |           |           |
| Voltage THD (linear load)  | <%3   |              |              |                                     |                |           |           |
| Crest Factor   | 3:1   |              |              |                                     |                |           |           |
| Frequency (Hz)   | 50Hz/60Hz   |              |              |                                     |                |           |           |
| Frequency Tolerance  | ±%0.01  |              |              |                                     |                |           |           |
| Overload   | 10 minutes at 125% load, 1 minute at 15% load                       |              |              |                                     |                |           |           |
| Efficiency*  | Until 94%   |              |              |                                     |                |           |           |
| <b>Static Bypass Line</b>  |   |              |              |                                     |                |           |           |
| Phase Number   | 3f+N+PE   |              |              |                                     |                |           |           |
| Voltage Tolerance for bypass operation   | ±%10  |              |              |                                     |                |           |           |
| Frequency Tolerance for bypass operation   | 47 Hz – 53 Hz ( Adjustable)   |              |              |                                     |                |           |           |
| <b>Battery</b>   |   |              |              |                                     |                |           |           |
| Type   | Maintenance-free dry type   |              |              |                                     |                |           |           |
| Number of Batteries  | Adjustable between 30 to 48 batteries                               |              |              | 30...48 units (15 N 15) – (24 N 24) |                |           |           |
| Battery Protection   | Deep discharge protection, Temperature-compensated battery charging |              |              |                                     |                |           |           |
| Battery Test   | Standard (Automatic and Manual)                                     |              |              |                                     |                |           |           |
| <b>Physical Features</b>   |   |              |              |                                     |                |           |           |
| Output Power (kVA)   | 100   | 120          | 160          | 200                                 | 250            | 300       | 400       |
| Dimensions WxDxH (mm)  | 670x730x1630  | 850x780x1820 | 970x850x1950 |                                     | 1340x1080x1950 |           |           |
| Weight (kg)  | 285   | 405          | 522          | 570                                 | 735            | 750       | 825       |
| <b>Options</b>   |   |              |              |                                     |                |           |           |
| Parallel Kit, SNMP (Internal or External), External bypass, Remote monitoring panel, Isolation Transformer, Battery cabinet, IP21 protection class |   |              |              |                                     |                |           |           |

\*Dependent on device power and environmental conditions.



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