



# Power Generation

**BNY17-5G5**

50Hz | Stage V



## General specifications

|                       |          | PRP        | Standby |
|-----------------------|----------|------------|---------|
| Power                 | kVA      | 17,5       | 19,2    |
| Power                 | kW       | 14         | 15,4    |
| Rated speed           |          | 1500       |         |
| Number of phases      |          | 3          |         |
| Frequency             | Hz       | 50         |         |
| Standard voltage      | V        | 400/230    |         |
| Rated at power factor | Cos Phi  | 0,8        |         |
| Emission norm         |          | EU Stage V |         |
| Length                | mm       | 2150       |         |
| Width                 | mm       | 1329       |         |
| Height                | mm       | 1025       |         |
| Weight without fuel   | Kg       | -          |         |
| Fuel                  |          | Diesel     |         |
| Fuel tank capacity    | L        | 100        |         |
| Autonomy at 75 % load | Hours    | 27         |         |
| Sound pressure level  | dB(A)@7m | 62         |         |



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## Engine specifications

|                                     |      | PRP             | Standby |
|-------------------------------------|------|-----------------|---------|
| Rated output                        | kW   | 17,2            | 18,5    |
| Manufacturer                        |      | YANMAR          |         |
| Model                               |      | 4TNV88IHR       |         |
| Engine type                         |      | 4-stroke diesel |         |
| Injection type                      |      | Direct          |         |
| Aspiration type                     |      | Naturally       |         |
| Number of cylinders and arrangement |      | 4 - L           |         |
| Bore and stroke                     | mm   | 88 x 90         |         |
| Displacement                        | L    | 2,19            |         |
| Compression ratio                   |      | 20              |         |
| Fuel consumption standby            | l/h  | 5,3             |         |
| Fuel consumption 100 % PRP          | l/h  | 4,7             |         |
| Fuel consumption 75 % PRP           | l/h  | 3,7             |         |
| Fuel consumption 50 % PRP           | l/h  | 2,3             |         |
| Total oil capacity                  | L    | 7,4             |         |
| Total coolant capacity              | L    | 5,5             |         |
| Governor                            | Type | Mechanical      |         |
| Electrical system                   |      | 12 Volt         |         |

## Generator specifications

|                                |  |                                |
|--------------------------------|--|--------------------------------|
| Manufacturer                   |  | Mecc Alte (standard)           |
| Number of poles                |  | 4                              |
| Connection type                |  | Star-series                    |
| Insulation class               |  | H                              |
| Enclosure (according IEC-34-5) |  | IP23                           |
| Exciter system                 |  | Self-excited, brushless        |
| Voltage regulator              |  | A.V.R. (elektronic)            |
| Coating type                   |  | Standard (vacuum impregnation) |

### Control panel (DSE7310)

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>▪ Engine control including start/stop</li> <li>▪ Warning low oil pressure</li> <li>▪ Warning battery charge error</li> <li>▪ Warning emergency stop operated</li> <li>▪ Warning high/low generator voltage</li> <li>▪ Warning high coolant temperature</li> <li>▪ Warning high/low battery voltage</li> <li>▪ Warning high/low engine speed</li> <li>▪ Warning high/low generator frequency</li> <li>▪ Warning overload</li> <li>▪ Adjustable earth leakage protection</li> <li>▪ Emergency stop</li> <li>▪ 4 pole generator switch (schneider electric)</li> </ul> | <ul style="list-style-type: none"> <li>▪ Readout of generator voltage L1-L2, L1-L3, L2-L3</li> <li>▪ Readout of generator voltage L1-N, L2-N, L3-N</li> <li>▪ Readout of generator current per phase</li> <li>▪ Readout decreased power [kVA]</li> <li>▪ Readout decreased power [kVAr]</li> <li>▪ Readout battery voltage</li> <li>▪ Readout operating hours</li> <li>▪ Readout generator frequency</li> <li>▪ Readout decreased power [kW]</li> <li>▪ Readout power factor [Cos Phi]</li> <li>▪ Readout engine speed</li> <li>▪ Readout number of starts</li> </ul> |
|--|---|





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## Standard version

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>▪ Steel chassis</li><li>▪ Anti-vibration mounts</li><li>▪ Fuel level gauge</li><li>▪ Bodywork made from high quality steel</li><li>▪ Soundproofing provided by high-density volcanic rock wool</li><li>▪ Full acces for maintenance (water, oil and filters)</li><li>▪ Steel residential silencer -35db(A) attenuation</li><li>▪ Fuel tank drain plug</li></ul> | <ul style="list-style-type: none"><li>▪ Oil sump extraction kit</li><li>▪ Emergency stop</li><li>▪ Watertight chassis</li><li>▪ Chassis with a metallic fuel tank</li><li>▪ Epoxy polyester powder coating</li><li>▪ Low noise level</li><li>▪ Lifting eye</li><li>▪ Socket box</li></ul> |
|---|---|

## Options

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>▪ Electronic regulator</li><li>▪ Coolant level switch</li><li>▪ Fuel transfer pump</li></ul> | <ul style="list-style-type: none"><li>▪ Mass switch</li><li>▪ Fuel pre-filter</li><li>▪ External tank connection</li></ul> |
|--|--|

## Application data

### Air intake system

|                  |                   |      |
|------------------|-------------------|------|
| Intake air flow  | m <sup>3</sup> /h | 88,7 |
| Cooling air flow | m <sup>3</sup> /s | 0,8  |

### Exhaust system

|                  |                     |      |
|------------------|---------------------|------|
| Exhaust gas flow | m <sup>3</sup> /min | 0,11 |
|------------------|---------------------|------|

**B&N Company with quality certification ISO 9001**

**B&N Gensets are compliant with EC mark which includes the following directives:**

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100, EN 13857, EN 60204

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