



## General Performance Data

|                  |       |               |
|------------------|-------|---------------|
| Engine           | Brand | Yanmar        |
|                  | Model | 3TNV82A-GGE   |
| Control module   |       | Deep Sea 4520 |
| Starting voltage | V     | 12            |
| Frequency        | Hz    | 50            |
| Number of phases |       | 3             |

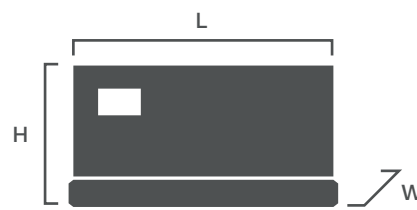
|                    |         | Prime | Standby |
|--------------------|---------|-------|---------|
| Power kVA          |         | 9     | 10      |
| Power kW           |         | 7,2   | 8       |
| Rated speed        | r.p.m   | 1500  |         |
| Standard voltage   | V       | 220   | 127     |
| Available voltages | V       | 380   | 220     |
| Power factor       | Cos Phi | 0,8   |         |

## Open



| Dimension  |    |      |  |
|------------|----|------|--|
| Length (L) | mm | 1390 |  |
| Height (H) | mm | 995  |  |
| Width (W)  | mm | 825  |  |
| Weight     | Kg | 544  |  |
| Fuel Tank  | L  | 24   |  |

## Silent



| Dimension  |    |      |  |
|------------|----|------|--|
| Length (L) | mm | 1390 |  |
| Height (H) | mm | 995  |  |
| Width (W)  | mm | 825  |  |
| Weight     | Kg | 630  |  |
| Fuel Tank  | L  | 24   |  |

## Fuel Consumption

| Rated Output | g/KW.h | L/h |
|--------------|--------|-----|
| 100% Standby | 0000   | 2,3 |
| 100% Prime   | 0000   | 2,1 |
| 75% Prime    | 0000   | ND  |
| 50% Prime    | 0000   | ND  |
| 25% Prime    | 0000   | ND  |

## Standards Followed

|          |          |
|----------|----------|
| ISO9001  | ISO14001 |
| ISO8528  | ISO12100 |
| ISO13849 | EN12601  |
| GB12786  | GB/T2820 |
| IEC60034 | IEC60204 |
| CE       | RETIE    |

## General Engine Data

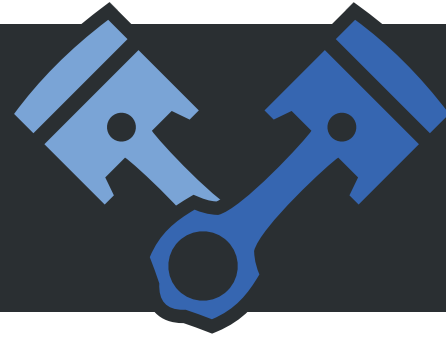
|                                     |                    |         |
|-------------------------------------|--------------------|---------|
| Engine brand                        | Yanmar             |         |
| Engine ref.                         | 3TNV82A-GGE        |         |
| Engine type                         | 4-stroke diesel    |         |
| Governor type                       | Mechanic           |         |
| Injection                           | Direct             |         |
| Aspiration                          | normally aspirated |         |
| Number of cylinders and arrangement | 3 - L              |         |
| Bore and stroke                     | mm                 | 82 x 84 |

|                                     |                |       |
|-------------------------------------|----------------|-------|
| Displacement                        | L              | 1.331 |
| Cooling system                      | Water          |       |
| Lube oil consumption with full load | 0.5%-1%of fuel |       |
| Compression ratio                   | 19.2:1         |       |
| Engine oil capacity                 | L              | 5.5   |
| Total coolant capacity              | L              | 1.8   |
| Air filter                          | Type           | Dry   |

|                        |                          |
|------------------------|--------------------------|
| Diesel engine          | Dry air filter           |
| 4-stroke cycle         | Radiator with pusher fan |
| Water-cooled           | Electronic governor      |
| 12V electrical system  | Hot parts protection     |
| Water separator filter | Moving parts protection  |

### Optionals

|                             |
|-----------------------------|
| Water jacked heater         |
| Radiator water level sensor |
| Oil heater                  |
| Heavy duty air filter       |



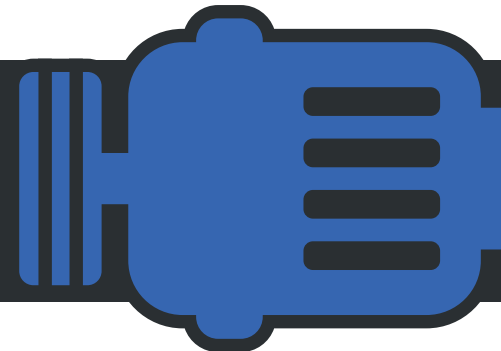
## Alternator Specifications

|                                |            |
|--------------------------------|------------|
| Number of phase                | 3          |
| Power factor                   | 0.8        |
| Poles                          | 4          |
| Winding Connections (standard) | Star-Serie |
| Insulation                     | H class    |
| Enclosure (according IEC-34-5) | IP23       |

|                   |                                |
|-------------------|--------------------------------|
| Excitation system | Auxiliary coil, brushless      |
| Voltage regulator | Electronic                     |
| No. of bearings   | Single bearing                 |
| Coupling system   | Flexible disc                  |
| Coating type      | Standard (Vacuum impregnation) |

### Optionals

|                                 |                                    |
|---------------------------------|------------------------------------|
| Self-excited and self-regulated | Alternator pre-heater              |
| IP23 protection                 | Winding temp. measuring instrument |
| H class insulation              | PMG / AREP / MAUX                  |



## Application Data

| Fuel system                 | Open   | Silent |
|-----------------------------|--------|--------|
| Fuel oil specifications     | Diesel |        |
| Standard fuel tank capacity | L 24   | 24     |

| Air system       |                   |    |
|------------------|-------------------|----|
| Intake air flow  | L/s               | ND |
| Cooling air flow | m <sup>3</sup> /s | ND |

| Exhaust system                |     |       |
|-------------------------------|-----|-------|
| Maximum exhaust temperature   | °C  | 82,22 |
| Exhaust gas flow              | L/s | 60    |
| Maximum allowed back pressure | kPa | 12,7  |

| Starting system     |     |     |
|---------------------|-----|-----|
| Starting power      | kW  | 1.7 |
| Recommended battery | Ah  | TBD |
| Number of batteries |     | 1   |
| Auxiliary voltage   | Vdc | 12  |

## Genset version

|                                   |  |
|-----------------------------------|--|
| Steel chasis                      | High mechanical strength                       |
| Emergency stop button             | Epoxy polyester powder coating                 |
| Anti-vibration shock absorbers    | Fuel tank drain plug                           |
| Chassis with integrated fuel tank | Steel residential silencer - 20dbA attenuation |
| Fuel level gauge                  | Battery charger                                |

## Optionals

Trailer type

 Water-cooled

 Three phase

 50 Hz

 Diesel

 Stackable canopy

## Standard reference conditions

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this catalogue correspond to the available information at the moment of printing.

## Control Panel Data

| Features of the control panel      | Basic Model (Standard) | Advanced Model (Optional) |
|------------------------------------|------------------------|---------------------------|
| Voltage between phases             | o                      | o                         |
| Voltage between neutral and phase  | o                      | o                         |
| Current intensities                | o                      | o                         |
| Frequency                          | o                      | o                         |
| Apparent power (kVA)               | o                      | o                         |
| Active power (kW)                  | o                      | o                         |
| Reactive power (kVAr)              | o                      | o                         |
| Power factor                       | o                      | o                         |
| Voltage between phases             | o                      | o                         |
| Emergency stop                     | o                      | o                         |
| Binary inputs                      | 6/6                    | 7/7                       |
| Analog inputs                      | 3                      | 3                         |
| 2x10A Current outputs              | o                      | -                         |
| I/O Configuration                  | o/o                    | o/o                       |
| D+ Function                        | o                      | o                         |
| Speed sensor                       | o                      | o                         |
| Amf/Mrs                            | o/o                    | o/o                       |
| GCB/MCB                            | o/o                    | o/o                       |
| 3ph voltage measurement Gen./Mains | o/o                    | o                         |
| 3ph current measurement            | o                      | o                         |
| kW / kWh / kVA                     | o                      | o                         |
| Engine reading                     | o                      | o                         |
| Engine protection                  | o                      | o                         |
| Alternator protection              | o                      | o                         |
| Earth current protection           | o                      | o                         |
| History file                       | 150                    | 350                       |
| RTC/Battery                        | o/-                    | o/o                       |
| PLC                                | -                      | -                         |
| 4G                                 | x                      | -                         |
| Airgate                            | -                      | x                         |
| ECU CAN                            | o                      | o                         |
| MODBUS                             | x                      | x                         |
| MODBUS IP                          | x                      | x                         |
| SNMP                               | -                      | x                         |
| SNMP TRAPS                         | -                      | -                         |
| RS232                              | x                      | x                         |
| RS485                              | x                      | x                         |
| GSM/GPRS modem                     | x                      | x                         |
| Remote screen                      | x                      | x                         |
| Software for PC                    | x                      | x                         |

Standard: o    Optional: x    Not Available: -