



| SERVICE | | PRP | ESP |
|-----------------------|---------|---------------------|------|
| POWER | kVA | 20 | 22 |
| POWER | kW | 16 | 17,6 |
| RATED SPEED | r.p.m. | 1.500 | |
| MAIN VOLTAGE | V | 400/230 | |
| AVAILABLE VOLTAGES | V | 200/115 · 230 V (t) | |
| RATED AT POWER FACTOR | Cos Phi | 0,8 | |



SILENT PLUS

AUSTRALIA Company with quality certification ISO 9001

AUSTRALIA 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)
- 97/68/EC Emissions of gaseous and particulate pollutants.
- EN 12100, EN 13857, EN 60204

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

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

"Class G2" performance according to the load impact test according to ISO 8528-5:2018

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DOMINICAN REPUBLIC | ARGENTINA | ANGOLA | SOUTH AFRICA



SILENT PLUS



B10R +



WATER-COOLED



THREE PHASE



50 HZ



DIESEL

Australia has the right to modify any feature without prior notice.

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.

The illustrations and images are indicative and may not coincide in their entirety with the product.

Industrial design under patent.



Engine Specifications | 1.500 r.p.m.

| | | |
|-------------------------------------|-------------------------------------|---------|
| Rated Engine Output (PRP) | kW | 19,1 |
| Rated Engine Output (ESP) | kW | 21 |
| Manufacturer | YANMAR | |
| Model | 4TNV84TBGGEH | |
| Engine Type | 4-stroke diesel | |
| Injection Type | Direct | |
| Aspiration Type | Turbocharged | |
| Number of cylinders and arrangement | 4-L | |
| Bore and Stroke | mm | 84 x 90 |
| Displacement | L | 1,995 |
| Cooling System | Coolant | |
| Lube Oil Specifications | SAE 3 class 10W30 / API grade CD,CF | |
| Compression Ratio | 18,9 | |

| | | |
|-------------------------------------|-------|------------|
| Lube oil consumption with full load | g/kWh | 0,27 |
| Total oil capacity | L | 7,4 |
| Total coolant capacity | L | 5,8 |
| Governor | Type | Mechanical |
| Air Filter | Type | Dry |
| Inner diameter exhaust pipe | mm | 34,7 |



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter (visible level)
- Dry air filter
- Radiator with pusher fan
- Mechanical governor
- Hot parts protection
- Moving parts protection



Generator Specifications | STAMFORD

| | | |
|----------------------------|-------------|---------|
| Manufacturer | STAMFORD | |
| Model | S0L2.G1 | |
| Poles | No. | 4 |
| Connection type (standard) | Star-series | |
| Mounting type | S-4 7,5" | |
| Insulation | Class | H class |

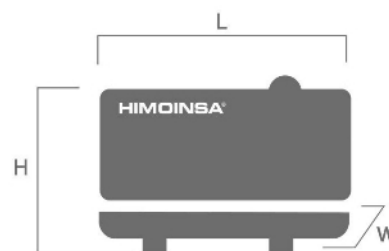
| | |
|--------------------------------|--------------------------------|
| Enclosure (according IEC-34-5) | IP23 |
| Exciter system | Self-excited, brushless |
| Voltage regulator | A.V.R. (Electronic) |
| Bracket type | Single bearing |
| Coupling system | Flexible disc |
| Coating type | Standard (Vacuum impregnation) |



- Self-excited and self-regulated
- IP23 protection
- H class insulation

WEIGHT AND DIMENSIONS

| | | Standard Version | Optional version | High Capacity version | High Capacity version |
|--|----------------|------------------|------------------|-----------------------|-----------------------|
| Length (L) | mm | 2150 | 2150 | 2150 | 2150 |
| Height (H) | mm | 1329 | 1329 | 1557 | 1557 |
| Width (W) | mm | 1025 | 1025 | 1025 | 1025 |
| Maximum shipping volume | m ³ | 2,93 | 2,93 | 3,43 | 3,43 |
| Weight with liquids in radiator and sump | Kg | 808 | 848 | 898 | 953 |
| Fuel tank capacity | L | 100 | 100 | 190 | 330 |
| Autonomy (70% PRP) | Hours | 28 | 28 | 54 | 93 |
| Autonomy (100% PRP) | Hours | 20 | 20 | 38 | 67 |
| | | Plastic tank | Steel tank | Steel tank | Steel tank |



SOUND PRESSURE

| | | |
|----------------------|----------|----------|
| Sound pressure level | dB(A)@7m | 59 ± 2,4 |
|----------------------|----------|----------|

APPLICATION DATA

EXHAUST SYSTEM

| | | |
|---|---------------------|------|
| Maximum exhaust temperature | °C | 450 |
| Exhaust Gas Flow | m ³ /min | 5,24 |
| Maximum allowed back pressure | mm H ₂ O | 1000 |
| Exhaust Flange Size (external diameter) | mm | 65 |

NECESSARY AMOUNT OF AIR

| | | |
|-------------------------|-------------------|--------|
| Intake air flow | m ³ /h | 116,71 |
| Cooling Air Flow | m ³ /s | 0,8 |
| Alternator fan air flow | m ³ /s | 0,105 |

FUEL CONSUMPTION

| | | |
|---------------------------|-----|------|
| Fuel Consumption ESP | l/h | 5,47 |
| Fuel Consumption 100% PRP | l/h | 4,95 |
| Fuel Consumption 70 % PRP | l/h | 3,54 |
| Fuel Consumption 50 % PRP | l/h | 2,72 |

FUEL SYSTEM

| | | |
|----------------------------|---|---------------|
| Fuel Oil Specifications | | Diesel |
| Fuel Tank | L | 100 |
| Other fuel tank capacities | L | 100, 190, 330 |

STARTING SYSTEM

| | | |
|---------------------|-----|-----|
| Starting power | kW | 1,4 |
| Starting power | CV | 1,9 |
| Recommended battery | Ah | 85 |
| Auxiliary Voltage | Vdc | 12 |



Soundproofed version

- Steel chassis
- Manhole to fill the radiator
- Pre-installation or niche to house the quick connection hydraulic fittings for fuel transfer
- Anti-leakage chassis, predisposed to retain liquids (retention tray)
- Manhole for fuel tank cleaning and drainage
- Manhole for chassis cleaning
- Oversized chassis to protect the bodywork
- Slide carriage and brackets for transportation with forklift
- Tilting cap in the exhaust
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Reinforced lifting hooks for crane hoisting
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- External filling of the fuel tank with safety key
- Emergency stop button (double emergency stop protection: Interior on the panel + Exterior on the bodywork)
- Mechanized for power cable output
- Door with window to visualize control panel, alarms and measurements
- Pressure locks
- 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings) (Optional).
- Fuel transfer pump (Optional).



FEATURES OF THE CONTROL UNITS

| | CEM 7 |
|--------------------|------------------------------------|
| Generator Readings | Voltage between phases |
| | Voltage between neutral and phase |
| | Current intensities |
| | Frequency |
| | Apparent power (Kva) |
| | Active power (Kw) |
| | Reactive power (kVAR) |
| | Power factor |
| Mains Readings | Voltage between phases |
| | Voltage between phases and neutral |
| | Current intensities |
| | Frequency |
| | Apparent power |
| | Active power |
| | Reactive power |
| Engine Readings | Power factor |
| | Coolant temperature |
| | Oil pressure |
| | Fuel level (%) |
| | Battery voltage |
| | R.P.M. |
| Engine Protections | Battery charge alternator voltage |
| | High water temperature |
| | High water temperature by sensor |
| | Low water temperature by sensor |
| | Low oil pressure |
| | Low oil pressure by sensor |
| | Low water level |
| | Unexpected shutdown |
| | Fuel storage |
| | Fuel storage by sensor |
| | Stop failure |
| | Battery voltage failure |
| | Battery charge alternator failure |
| | Overspeed |
| | Underspeed |
| | Start failure |
| | Emergency stop |

● Standard

⊙ Optional

| | CEM 7 | |
|------------------------|-------------------------------------|-----------|
| Alternator Protections | High frequency | ● |
| | Low frequency | ● |
| | High voltage | ● |
| | Low voltage | ● |
| | Short-circuit | ● |
| | Asymmetry between phases | ● |
| | Incorrect phase sequence | ● |
| | Inverse power | ● |
| | Overload | ● |
| | Genset signal drop | ● |
| Counters | Total hour counter | ● |
| | Partial hour counter | ● |
| | Kilowatt meter | ● |
| | Starts valid counters | ● |
| | Starts failure counters | ● |
| | Maintenance | ● |
| Communications | RS232 | ⓪ |
| | RS485 | ⓪ |
| | Modbus IP | ⓪ |
| | Modbus | ⓪ |
| | CCLAN | ⓪ |
| | Software for PC | ⓪ |
| | Analogue modem | ⓪ |
| | GSM/GPRS modem | ⓪ |
| | Remote screen | ⓪ |
| | Tele signal | ⓪ (8 + 4) |
| | J1939 | ⓪ |
| Features | Alarm history | ● (100) |
| | External start | ● |
| | Start inhibition | ● |
| | Mains failure start | ● |
| | Start under normative EJP | ● |
| | Pre-heating engine control | ● |
| | Genset contactor activation | ● |
| | Mains & Genset contactor activation | ● |
| | Fuel transfer control | ● |
| | Engine temperature control | ● |
| | Manual override | ● |
| | Programmable alarms | ● |
| | Genset start function in test mode | ● |
| | Programmable outputs | ● |
| | Multilingual | ● |
| Special Functions | GPS Positioning | ⓪ |
| | Synchronisation | ⓪ |
| | Mains synchronization | ⓪ |
| | Second Zero elimination | ⓪ |
| | RAM7 | ⓪ |
| | Remote screen | ⓪ |

● Standard

⓪ Optional



CONTROL PANELS



M5

Digital manual Auto-Start control panel and thermal magnetic protection (depending on current and voltage) and differential with CEM7.

Digital control unit CEM7



Electrical system

- M5 control panel with electronic CEM7 control unit and switched emergency stop
- Power panel with built-in circuit breaker plates
- Safety relay in output terminal board (thermal magnetic trip and alarm in control unit)
- Adjustable earth leakage protection (time & sensitivity) standard in M5 and AS5, with thermal magnetic protection
- Battery charger alternator with ground connection
- Starter battery/ies installed (cables and bracket included)
- Ground connection electrical installation with connection ready for ground spike (not supplied)
- Battery Switch (Opcional).