



## General Performance Data

|                  |               |                   |
|------------------|---------------|-------------------|
| Engine           | Brand         | MWM               |
|                  | Model         | Serie 12-6.12TCEG |
| Control module   | Deep Sea 4520 |                   |
| Starting voltage | V             | 12                |
| Frequency        | Hz            | 50                |
| Number of phases | 3             |                   |

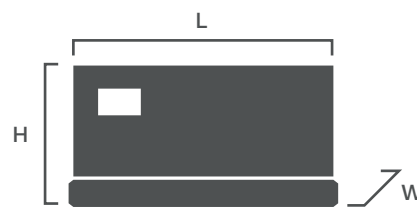
|                    | Prime   | Standby |     |
|--------------------|---------|---------|-----|
| Power kVA          | 240     | 260     |     |
| Power kW           | 192     | 208     |     |
| Rated speed        | r.p.m   | 1500    |     |
| Standard voltage   | V       | 220     | 127 |
| Available voltages | V       | 400     | 231 |
| Power factor       | Cos Phi | 0,8     |     |

## Open



| Dimension  |    |      |  |
|------------|----|------|--|
| Length (L) | mm | 2915 |  |
| Height (H) | mm | 1833 |  |
| Width (W)  | mm | 1150 |  |
| Weight     | Kg | 2020 |  |
| Fuel Tank  | L  | 400  |  |

## Silent



| Dimension  |    |      |  |
|------------|----|------|--|
| Length (L) | mm | 3471 |  |
| Height (H) | mm | 2159 |  |
| Width (W)  | mm | 1150 |  |
| Weight     | Kg | 2532 |  |
| Fuel Tank  | L  | 400  |  |

## Fuel Consumption

| Rated Output | g/KW.h | L/h  |
|--------------|--------|------|
| 100% Standby | 0000   | 54   |
| 100% Prime   | 0000   | 48.6 |
| 75% Prime    | 0000   | 43.2 |
| 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

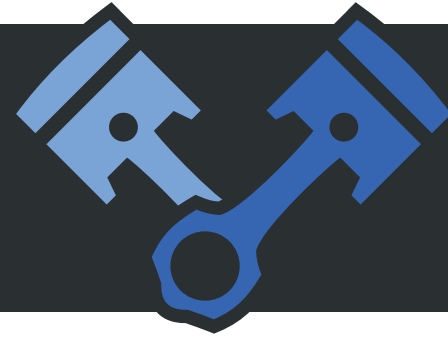
|                                     |                     |
|-------------------------------------|---------------------|
| Engine brand                        | MWM                 |
| Engine ref.                         | Serie 12 - 6.12TCEG |
| Engine type                         | 4-stroke diesel     |
| Governor type                       | Electronic          |
| Injection                           | Direct              |
| Aspiration                          | Turbo Aftercooler   |
| Number of cylinders and arrangement | 6- L                |
| Bore and stroke                     | mm 105x137          |

|                                     |                |     |
|-------------------------------------|----------------|-----|
| Displacement                        | L              | 7.2 |
| Cooling system                      | Water          |     |
| Lube oil consumption with full load | 0.5%-1%of fuel |     |
| Compression ratio                   | 16.9:1         |     |
| Engine oil capacity                 | L              | 22  |
| Total coolant capacity              | L              | 38  |
| 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

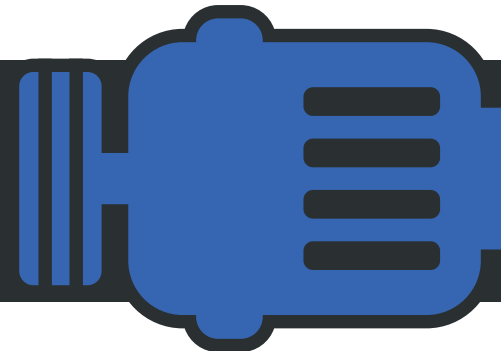
|                                |            |
|--------------------------------|------------|
| Number of phase                | 3          |
| Power factor                   | 0.8        |
| Poles                          | 4          |
| Winding Connections (standard) | Star-Serie |
| Insulation                     | 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) |

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

### Optionals

|                                    |
|------------------------------------|
| Alternator pre-heater              |
| Winding temp. measuring instrument |
| PMG / AREP / MAUX                  |



## Application Data

### Fuel system

|                             | Open   | Silent |
|-----------------------------|--------|--------|
| Fuel oil specifications     | Diesel |        |
| Standard fuel tank capacity | L 400  | 400    |

### Air system

|                  |                   |      |
|------------------|-------------------|------|
| Intake air flow  | L/s               | 310  |
| Cooling air flow | m <sup>3</sup> /s | 6442 |

### Exhaust system

|                               |     |     |
|-------------------------------|-----|-----|
| Maximum exhaust temperature   | °C  | 600 |
| Exhaust gas flow              | L/s | 332 |
| Maximum allowed back pressure | kPa | 10  |

### Starting system

|                     |     |     |
|---------------------|-----|-----|
| Starting power      | kW  | 3.3 |
| Recommended battery | Ah  | 100 |
| 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: -