



General Performance Data

Engine	Brand	MWM
	Model	4.12TCAG
Control module	Deep Sea 4520	
Starting voltage	V	12
Frequency	Hz	50
Number of phases	3	

	Prime	Standby	
Power kVA	80	90	
Power kW	64	72	
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	2675	
Height (H)	mm	1584	
Width (W)	mm	1150	
Weight	Kg	1170	
Fuel Tank	L	100	

Silent



Dimension			
Length (L)	mm	3126	
Height (H)	mm	1756	
Width (W)	mm	1150	
Weight	Kg	1459	
Fuel Tank	L	100	

Fuel Consumption

Rated Output	g/KW.h	L/h
100% Standby	0000	22.6
100% Prime	0000	20.1
75% Prime	0000	17.6
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

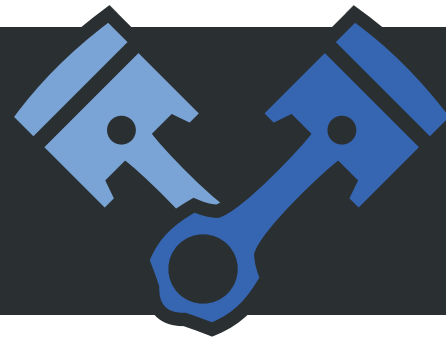
Engine brand	MWM
Engine ref.	4.12TCAG
Engine type	4-stroke diesel
Governor type	Electronic
Injection	Direct
Aspiration	normally aspirated
Number of cylinders and arrangement	3- L
Bore and stroke	mm 105x120

Displacement	L	3.1
Cooling system	Water	
Lube oil consumption with full load	0.5%-1%of fuel	
Compression ratio	16.9:1	
Engine oil capacity	L	7
Total coolant capacity	L	15,6
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

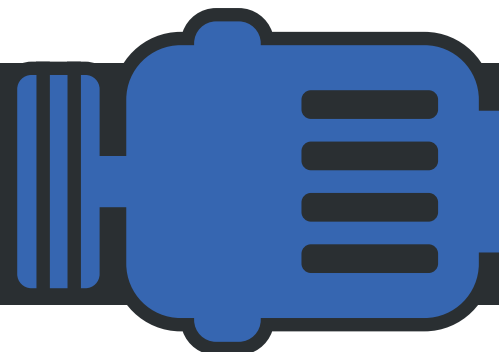
Number of phase	3
Power factor	0.8
Poles	4
Winding Connections (standard)	Star-Serie
Insulation	H class
Enclosure (according IEC-34-5)	IP23

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 100	100

Air system		
Intake air flow	L/s	310
Cooling air flow	m ³ /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	4.3
Recommended battery	Ah	95
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: -