General Performance Data

Engine	Brand	MWM
	Model	12-4.12TG

Control module		Deep Sea 4520
Starting voltage	V	12
Frequency	Hz	50
Number of phases		3

		Prime	Standby
Power kVA		76	85
Power kW		61	68
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	1150
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

UPOWER

General Engine Data

Engine brand	MWM		Displacement	L	4.8
Engine ref.	12-4.12TG		Cooling system		Water
Engine type	4-stroke diesel		Lube oil consumption with full load		0.5%-1%of fuel
Governor type	Electronic		Compression ratio		16.9:1
Injection	Direct		Engine oil capacity	L	10
Aspiration	normally aspirated		Total coolant capacity	L	18
Number of cylinders and arrangement	4- L		Air filter	Type	Dry
Bore and stroke	mm	105x 137			

Diesel engine

4-stroke cycle

Water-cooled

12V electrical system

Water separator filter

Dry air filter

Radiator with pusher fan

Electronic governor

Hot parts protection

Moving parts protection

Optionals

Water jacked heater

Radiator water level sensor

Oil heater

Heavy duty air filter
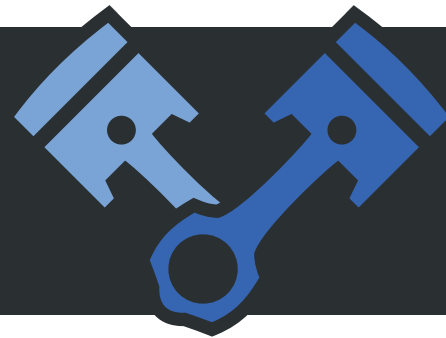
Alternator Specifications

Number of phase	3		Excitation system	Auxiliary coil, brushless
Power factor	0.8		Voltage regulator	Electronic
Poles	4		No. of bearings	Single bearing
Winding Connections (standard)	Star-Serie		Coupling system	Flexible disc
Insulation	H class		Coating type	Standard (Vacuum impregnation)
Enclosure (according IEC-34-5)	IP23			

Self-excited and self-regulated

IP23 protection

H class insulation

Optionals

Alternator pre-heater

Winding temp. measuring instrument

PMG / AREP / MAUX

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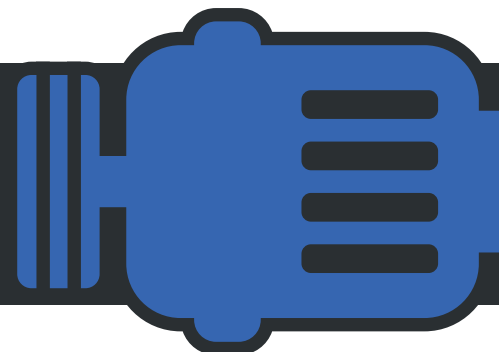
Application Data

Fuel system		Open	Silent
Fuel oil specifications		Diesel	
Standard fuel tank capacity	L	100	100

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

Air system		
Intake air flow	L/s	310
Cooling air flow	m³/s	6442

Starting system		
Starting power	kW	4.3
Recommended battery	Ah	90
Number of batteries		1
Auxiliary voltage	Vdc	12

Genset version

Steel chasis

Emergency stop button

Anti-vibration shock absorbers

Chassis with integrated fuel tank

Fuel level gauge

High mechanical strength

Epoxy polyester powder coating

Fuel tank drain plug

Steel residential silencer - 20dbA attenuation

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, 25ºC, 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.

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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: **-**

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