General Performance Data

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

			Prime	Standby
Power kVA			126	140
Power kW			100	112
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	1734
Fuel Tank	L	400

Silent

Dimension		
Length (L)	mm	3471
Height (H)	mm	2159
Width (W)	mm	1150
Weight	Kg	2111
Fuel Tank	L	400

Fuel Consumption

Rated Output	g/KW.h	L/h
100% Standby	0000	36
100% Prime	0000	32.6
75% Prime	0000	25.9
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.		12-6.12TG
Engine type		4-stroke diesel
Governor type		Electronic
Injection		Direct
Aspiration		Turbo Aftercooler
Number of cylinders and arrangement		6- L
Bore and stroke	mm	105x 137

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	33
Air filter	Type	Dry

		Optionals
Diesel engine	Dry air filter	Water jacked heater
4-stroke cycle	Radiator with pusher fan	Radiator water level sensor
Water-cooled	Electronic governor	Oil heater
12V electrical system	Hot parts protection	Heavy duty air filter
Water separator filter	Moving parts protection	
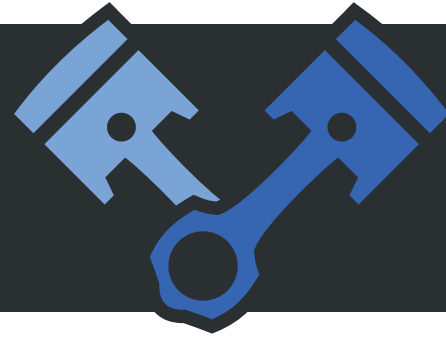
Alternator Specifications

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

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UPM 140
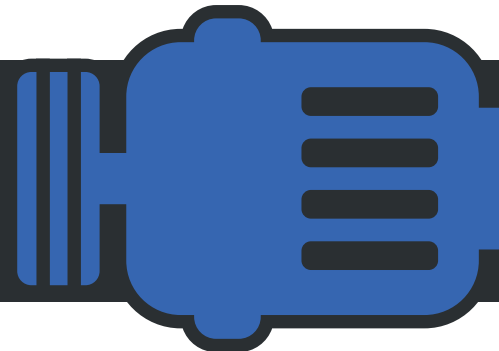
Application Data

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

Exhaust system		
Maximum exhaust temperature	ºC	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	95
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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