



## General Performance Data

Engine	Brand	MWM
	Model	D229-3NAG
Control module	Deep Sea 4520	
Starting voltage	V	12
Frequency	Hz	50
Number of phases	3	

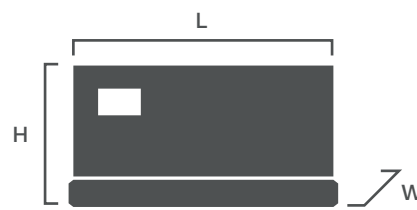
	Prime	Standby	
Power kVA	26	30	
Power kW	21	24	
Rated speed	r.p.m	1500	
Standard voltage	V	220	127
Available voltages	V	400	231
Power factor	Cos Phi	0,8	

## Open



Dimension			
Length (L)	mm	2350	
Height (H)	mm	1550	
Width (W)	mm	1100	
Weight	Kg	720	
Fuel Tank	L	100	

## Silent



Dimension			
Length (L)	mm	2738	
Height (H)	mm	1691	
Width (W)	mm	1100	
Weight	Kg	1130	
Fuel Tank	L	100	

## Fuel Consumption

Rated Output	g/KW.h	L/h
100% Standby	0000	8.69
100% Prime	0000	7.9
75% Prime	0000	7.3
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

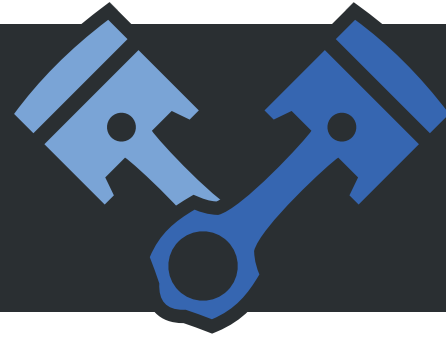
Engine brand	MWM
Engine ref.	D229-3NAG
Engine type	4-stroke diesel
Governor type	Electronic
Injection	Direct
Aspiration	normally aspirated
Number of cylinders and arrangement	3- L
Bore and stroke	mm 98 x 110

Displacement	L	2.9
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
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

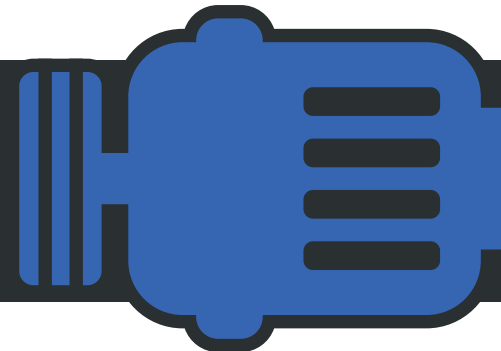
Number of phase	3
Power factor	0.8
Poles	4
Winding Connections (standard)	Star-Serie
Insulation	H class
Enclosure (according IEC-34-5)	IP23

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 <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	TBD
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: -