General Performance Data

Engine	Brand	Baudouin
	Model	4M10G110/5
Control module		DATAKOM D500 MK3
Starting voltage	V	12
Frequency	Hz	50
Number of phases		3

		Prime	Standby
Power kVA		100	110
Power kW		80	88
Rated speed	r.p.m	1500	
Standard voltage	V	220	127
Available voltages	V	380	415
Power factor	Cos Phi	0.8	

Open

Dimension		
Length (L)	mm	0000
Height (H)	mm	0000
Width (W)	mm	0000
Weight	Kg	0000
Fuel Tank	L	0000

Silent
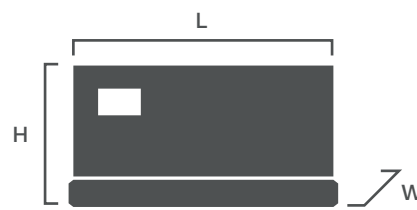
Dimension		
Length (L)	mm	2600
Height (H)	mm	1200
Width (W)	mm	950
Weight	Kg	1273
Fuel Tank	L	150

Fuel Consumption

Rated Output	g/KW.h	L/h
100% Standby	0000	24.43
100% Prime	0000	21.25
75% Prime	0000	15.87
50% Prime	0000	10.58
25% Prime	0000	0000

Standards Followed

ISO9001	ISO14001
ISO8528	ISO12100
ISO13849	EN12601
GB12786	GB/T2820
IEC60034	IEC60204
CE	RETIE

General Engine Data

Engine brand	BAUDOUIN		
Engine ref.	4M10G110/5		
Engine type	4 -stroke diesel		
Governor type	Electronic		
Injection	Direct		
Aspiration	Turbocharged and Aftercooled		
Number of cylinders and arrangement	4 - L		
Bore and stroke	mm	105 x 118	

Displacement	L	4,087
Cooling system		Water - Cooling
Lube oil consumption with full load		0.5%-1% of fuel consumption
Compression ratio		17.5:1
Engine oil capacity	L	8
Total coolant capacity	L	12
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)	IP 23

Excitation system	Shunt
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

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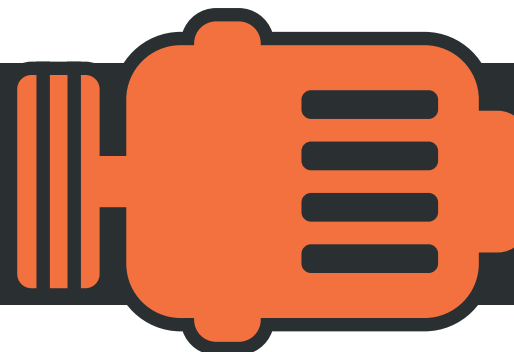
Application Data

Fuel system		Open	Silent
Fuel oil specifications		Diesel	
Standard fuel tank capacity	L	0000	150

Exhaust system		
Maximum exhaust temperature	ºC	700
Exhaust gas flow	L/s	(m3/min) 17.25
Maximum allowed back pressure	kPa	N/D

Air system		
Intake air flow	L/s	(m3/min)
Cooling air flow	m³/s	4.77

Starting system		
Starting power	kW	3.3
Recommended battery	Ah	80
Number of batteries		1
Auxiliary voltage	Vdc	12

Genset version

		Optionals
Steel chasis	High mechanical strength	Trailer type
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	

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/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	-	x
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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UPOWER