

DEUTZ NO-DE110

STANDBY POWER(50HZ) 87 KW / 110 KVA
PRIME POWER (50HZ) 80 KW / 100 KVA

102 kW, 114 hp at 1500 min⁻¹ rpm, EU Stage II / US EPA Tier 2

Powered by your needs

Watercooled 4 and 6 cylinder in-line engine.
Turbocharging and turbocharging with charge air cooling.
Displacement: 1.2 l /cylinder.
Modern high-pressure fuel injection system with single injection pumps.
Electronic governor (option).
All servicing points on one side.
Compact design and low weight.

Your benefits:

- Low noise radiation. This eliminates the need for costly noise attenuation measures.
- Exemplarily low fuel and oil consumption, long service intervals save operating costs.
- Easy and cost-effective installation with minimum weight and small space requirement.
- Outstanding load acceptance ensures immediate power supply.
- Incomparably low exhaust emission, meets all industrial exhaust regulations.
- Global service network with over 1,000 locations. EN14214.

STANDARD FEATURES

Engine features

- Engine Deutz BF4M 1013 EC
- Radiator 50°C max, fans are driven by belt, with safety guard
- 24V charge alternator

Alternator

- Single bearing alternator IP23, insulation class H/H
- Absorber
- Dry type air filter, fuel filter, oil filter, pre-filter
- Main line circuit breaker
- Standard control panel
- Batteries, rack and cable
- User manual
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler



Photographs are for illustrative purposes only and may not reflect final specification.

GENERATOR RATINGS

Voltage	HZ	Phase	P.F (COSφ)	Standby Amps KW/KVA	Standby Ratings KW/KVA	Prime Ratings
440/254	50	3	0.8	143	87/109	80/100
415/240	50	3	0.8	151	87/109	80/100
400/230	50	3	0.8	157	87/109	80/100
380/220	50	3	0.8	165	87/109	80/100

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

SALES PROMISES

Norwerk provides a full line of brand new and high quality products. Each and every unit is strictly factory tested. Warranty is according to our standard conditions: a, 15 months, counted on the day Norwerk sold to the first buyer; b, One year after installation; c, 1000 running hours (accumulated); subject to the earlier one. Service and parts are available from Baifa Power or distributors in your location.

ENGINE DATA

Manufacturer / Model:	DEUTZ / BF4M 1013 EC, 4-cycle
Air Intake System:	Turbo, Air/Air Cooling
Fuel System:	Directly Injection ,Single injection Pumps
Cylinder Arrangement:	4 in lin
Displacement:	4,76 L
Bore and Stroke:	108*130 (mm)
Compression Ratio:	19
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	102KW/138HP
Governor Type:	Mechanical Governor

EXHAUST SYSTEM

Exhaust Gas Flow:	18,4 m ³ /min
Exhaust Temperature:	560°C
Max Back Pressure:	3 kPa

AIR INTAKE SYSTEM

Max Intake Restriction:	2,5 kPa
Burning Capacity:	6,09 m ³ /min
Air Flow:	102 m ³ /min

FUEL SYSTEM

100% (Prime Power) Load:	212 g/KWh
75% (Prime Power) Load:	211 g/KWh
50% (Prime Power) Load:	214 g/KWh
100% (Prime Power) Load:	22,1 L/h

OIL SYSTEM

Total Engine Oil Capacity:	0.3% of Fuel Consumption
Engine Oil Tank Capacity:	11 L
Oil Pressure at Rated RPM:	> 270 kPa

COOLING SYSTEM

Total Coolant Capacity:	19,7 L
Thermostat:	83 - 95°C
Max Water Temperature:	110°C

ALTERNATOR SPECIFICATION

Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP23
Altitude:	≤1000m
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	<50
THF:	<2%
Voltage Regulation, Steady State:	≤±1%
Alternator Capacity:	100 kVA
Alternator Efficiencies:	90,3 %
Air Cooling Flow:	0,5814 m ³ /s

RUNNING PARAMETERS

Voltage Regulation:	≥±5%
Voltage Regulation, Stead State:	≤±1%
Sudden Voltage Warp (100% Sudden Reduce):	≤+25%
Sudden Voltage Warp (Sudden Increase):	≤-20%
Voltage Stable Time (100% Sudden Reduce):	≤6S
Voltage Stable Time (Sudden Increase)	≤6S
Frequency Regulation, Stead State:	≤5%
Frequency Waving:	≤1.5%
Sudden Frequency Warp (100% Sudden Reduce):	≤+12%
Sudden Frequency Warp (Sudden Increase):	≤-10%
Frequency Recovery Time (100% Sudden Reduce):	≤5S
Frequency Recovery Time (Sudden Increase):	≤5S

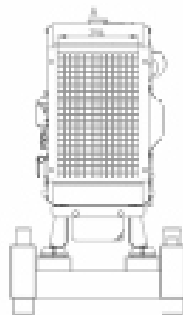
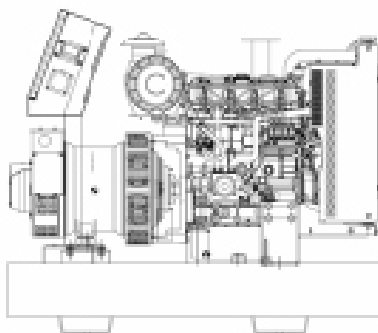
STANDARD FEATURES

- Norwerk Standard Auto Control System
- MCCB
- One set of fuel filter / oil filter / belt
- Oil Drain Valve
- Starting batteries(Maintenance-Free & Watering-Free) with connective wires
- Exhaust System(including until muffler)
- Documents

OPTIONS

- Base Fuel Tank
- Permanent Magnet Generator(PMG)
- Remote Control Panel
- Daily Fuel Tank
- Rainproof Type
- Automatic Transfer Switch
- Battery Charger
- Soundproof Type
- Switch box
- Engine Heater
- Trailer Type
- Paralleling System
- Alternator Heater
- Water Separator
- Spare Parts

DIMENSION & WEIGHT

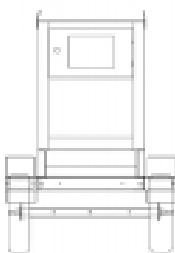
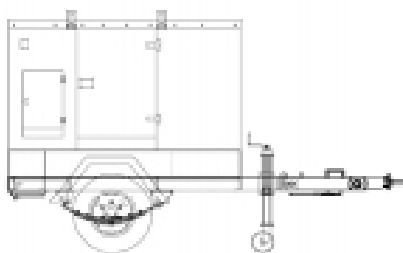


Standard Configuration (Open Type)

Overall Size: 2150(mm)×750(mm)×1550(mm)
Weight: 1290 kg

With Base Fuel Tank

Overall Size: 2150(mm)×750(mm)×1550(mm)
Weight: 1290 kg



Soundproof Type

Overall Size: 2810(mm)×1140(mm)×1830(mm)
Weight: 1850 kg

With Base Fuel Tank

Overall Size: 3390(mm)×1140(mm)×1830(mm)
Weight: 2500 kg

STANDARD CONTROL PANEL



Standard Control Panel uses micro processing technique integrating digital, intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses LCD display, optional Chinese and English display interface with operation easy and reliable. It can be widely used in all types of generator automatic control system for compact structure, advanced circuits, simple connections and high reliability.

AUTO MODULE CONTROL PANEL



Auto Module Control Panel is the configuration for nobody on duty controlling generators. This kind of panel adopts auto module control system, with large LCD display to show the menu.

Features

MRS10-can receive remote output signal from ATS and realize auto start and stop of generators.
MRS16-can realize all functions of MRS10, add RS232 interface which can communicate with PC to realize remote operation. AMF25-Auto Mains Failure controller, can realize all functions of MRS16, furthermore can detect ATS and control directly.

AUTO PARALLEL CONTROL PANEL



Automatic Parallel Control Panel This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.