PERKINS NO-PE10

STANDBY POWER(50HZ) 8 KW / 10 KVA
PRIME POWER (50HZ) 7,2 KW / 9 KVA

8 kW, 12,7 hp at 1500 min^{-1} rpm, EU Stage II / US EPA Tier 2

Powered by your needs

▪ The 403A-11G1 ElectropaK is a powerful but quiet 1.1 litrenaturally aspirated 3-cylinder compact package

Compact, clean, efficient power

▪ Design features on the 400 Series ElectropaKs ensure clean rapid starting in all conditions whilst delivering impressive performance, with low operating costs, in a small, efficient package size

Lower operating costs

▪ Approved for operation on biodiesel* concentrations of up to 20 %

▪ Oil and filter changes are 500 hours, dependent on load factor

▪ Engine durability and reliability, the warranty offering and ease of installation combine to drive down the cost of ownership

Product support

▪ With highly trained Perkins distributors in thousands of communities in over 180 countries, you are never far away from expert product knowledge, genuine parts and a range of advanced diagnostic technology for keeping your engine in peak condition.

*Subject to conformance with ASTM D6751 and EN14214.

STANDARD FEATURES

Engine features

▪ Engine Perkins 403A-11G1
▪ 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
▪ Ripple flex exhaust pipe, exhaust siphon, flange, muffler
▪ User manual

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	13,1	8/10	7.2/9
415/240	50	3	0.8	13,9	8/10	7.2/9
400/230	50	3	0.8	14,4	8/10	7.2/9
380/220	50	3	0.8	15,1	8/10	7.2/9

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:	Perkins 403A-11G, 4-cycle
Air Intake System:	Natural
Fuel System:	Directly Injection
Cylinder Arrangement:	3 in lin
Displacement:	1.131L
Bore and Stroke:	77*81 (mm)
Compression Ratio:	23
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	9.5KW/12.9HP
Governor Type:	Mechanica

EXHAUST SYSTEM

Exhaust Gas Flow:	1.8m³/min
Exhaust Temperature:	420°C
Max Back Pressure:	10.2 kPa

AIR INTAKE SYSTEM

Max Intake Restriction:	6,4 kPa
Burning Capacity:	0,7 m³/min
Air Flow:	40,2 m³/min

FUEL SYSTEM

100% (Prime Power) Load:	252 g/KWh
75% (Prime Power) Load:	258 g/KWh
50% (Prime Power) Load:	286 g/KWh
100% (Prime Power) Load:	2,7 L/h

OIL SYSTEM

Total Engine Oil Capacity:	4,9 L
Engine Oil Tank Capacity:	4,4 L
Oil Pressure at Rated RPM:	304-500 kPa

COOLING SYSTEM

Total Coolant Capacity:	5,2 L
Thermostat:	75-87°C
Max Water Temperature:	112°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:	10 kVA
Alternator Efficiencies:	80,5 %
Air Cooling Flow:	0,1 m³/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

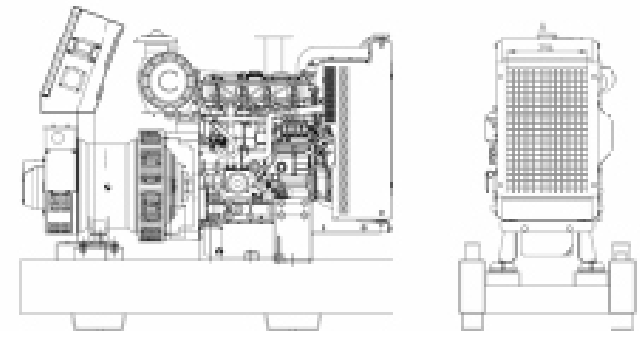
STANDARD FEATURES

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

OPTIONS

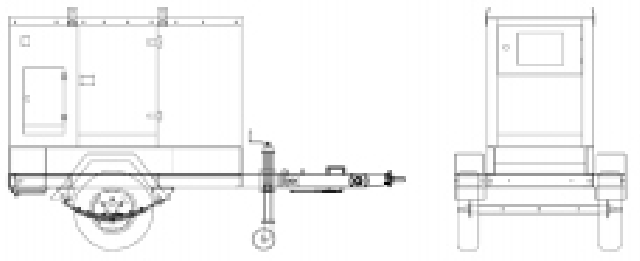
- Base Fuel Tank
- Permanent Magnet Generator(PMG)
- Remote Control Panel
- Daily Fuel Tank
- Rainproof Type
- Automatic Transfer Switch
- Battery Charger
- Soundproof Type
- Switch box
- Engine Heater
- Trailer Type
- Paralleling System
- Alternator Heater
- Water Separator
- Spare Parts

DIMENSION & WEIGHT



Standard Configuration (Open Type)
Overall Size: 1150(mm)×500(mm)×1100(mm)
Weight: 280 kg

With Base Fuel Tank
Overall Size: 1150(mm)×500(mm)×1100(mm)
Weight: 280 kg



Soundproof Type
Overall Size: 1710(mm)×880(mm)×1350(mm)
Weight: 680kg

With Base Fuel Tank
Overall Size: 2300(mm)×1490(mm)×1950(mm)
Weight: 1180 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.