



## MG-PRE-0015

PERKINS Series Diesel Generator Sets

|          |     |    |
|----------|-----|----|
| Stand by | kVA | 15 |
|          | kW  | 12 |

|       |     |    |
|-------|-----|----|
| PRIME | kVA | 13 |
|       | kW  | 10 |



PERKINS



EMSA



Smart 500 mk



Water Cooled



50 hz



3 phase



Easy maintenance



Modular type sound-proof canopy



Diesel



Remote control system



Warning system for decreasing fuel



## Engine Specifications

- PERKINS series heavy duty diesel engine
- 4 Cycle, Water Cooling system, Natural Induction
- Mechanic governor system
- 12/24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Flexible fuel pipe
- Oil discharge valve and extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

|                     |             |      |                                         |          |
|---------------------|-------------|------|-----------------------------------------|----------|
| Model               | 403A-15G1   |      | Governor type                           | Mechanic |
| Power               | Stand by kW | 13,2 | Induction                               | Natural  |
|                     | Prime kW    | 12   | Combustion System                       | Indirect |
| Speed (rpm)         | 1500        |      | Cooling system                          | Water    |
| Cycle               | 4           |      | Fuel consumption 100%                   | 3,7      |
| Displacement (lt)   | 1,496       |      | (lt/h) 75%                              | 2,8      |
| Number of cylinders | 3, in line  |      | 50%                                     | 2        |
| Bore & Stroke       | 84 x 90     |      | Total lubrication system capacity (lt)6 |          |
| Compression ratio   | 22,5 : 1    |      | Total coolant capacity (lt) 6           |          |



## Alternator Specifications

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid

|                 |                   |                          |         |
|-----------------|-------------------|--------------------------|---------|
| Brand           | EMSA              | phase                    | 3       |
| Model           | EGK160-10N2       | A.V.R.                   | SX460   |
| Frequency (hz)  | 50                | Voltage regulation (+/-) | ± 1%    |
| Power (KVA)     | 15                | Insulation system        | Class H |
| Design          | 4 pole, brushless | Protection               | IP23    |
| Connection type | Star              | Rated power factor       | 0,8     |
| Voltage (V)     | 400               | Weight (kg)              | 78      |



## Canopy

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Weatherproof canopy rating is IP 23
- Canopy designed for easy maintenance



Dimensions  
(W x L x H) mm

900x1750x1337



Weight (Kg)

573,4



Fuel tank capacity (lt)

82

- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window
- Insulation details: Non-flammable acoustic foam
- Nano tech cleaning system



Dimensions  
(W x L x H) mm

900x1400x1145



Weight (Kg)

397



Fuel tank capacity (lt)

82

## Silencer options

- Standard industrial type
- Critical type
- Hospital type

## Gen-Set safety protection & alarms

- High water temperature
- Low oil pressure
- High & low engine speed
- Low radiator water level

## Canopy options

- Standard canopy
- Super silent canopy
- Extra süper silent canopy (thicker insulation)

## Optional Equipments

- Charge ammeter
- Moulded case circuit braker (in automatic models)
- Hospital/Critical type silencer
- Modular type sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-16 gensets

- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water seperator filter
- PMG warning system