



## MG-PRE-0050

PERKINS Series Diesel Generator Sets

|          |     |    |
|----------|-----|----|
| Stand by | kVA | 50 |
|          | kW  | 40 |

|       |     |    |
|-------|-----|----|
| PRIME | kVA | 45 |
|       | kW  | 36 |



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, TURBOCHARGED 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               | 1103A-33TG1 |      | Governor type                              | Mechanic     |
| Power               | Stand by kW | 45,6 | Induction                                  | TURBOCHARGED |
|                     | Prime kW    | 41,3 | Combustion System                          | Direct       |
| Speed (rpm)         | 1500        |      | Cooling system                             | Water        |
| Cycle               | 4           |      | Fuel consumption 100%                      | 10,8         |
| Displacement (lt)   | 3,3         |      | (lt/h) 75%                                 | 8,23         |
| Number of cylinders | 3, in line  |      | 50%                                        | 5,83         |
| Bore & Stroke       | 105 x 127   |      | Total lubrication system capacity (lt) 7,9 |              |
| Compression ratio   | 17,25 : 1   |      | Total coolant capacity (lt) 10,2           |              |



## 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           | EGK180-36N2       | A.V.R.                   | SX460   |
| Frequency (hz)  | 50                | Voltage regulation (+/-) | ± 1%    |
| Power (KVA)     | 50                | Insulation system        | Class H |
| Design          | 4 pole, brushless | Protection               | IP23    |
| Connection type | Star              | Rated power factor       | 0,8     |
| Voltage (V)     | 400               | Weight (kg)              | 194     |



## 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

1000x2300x1545



Weight (Kg)

979



Fuel tank capacity (lt)

101

- 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

1000x1900x1396



Weight (Kg)

769



Fuel tank capacity (lt)

101

## 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

## Optional Equipments

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

## Canopy options

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

- Over current load
- High & low genset voltage
- Start/stop failure

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