



## MG-PRE-0850

PERKINS Series Diesel Generator Sets

|          |     |     |
|----------|-----|-----|
| Stand by | kVA | 850 |
|          | kW  | 680 |

|       |     |     |
|-------|-----|-----|
| PRIME | kVA | 770 |
|       | kW  | 616 |



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 - INTERCOOLER Induction
- Electronic 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               | 2806A-E18TTAG5 |     |
| Power               | Stand by kW    | 739 |
|                     | Prime kW       | 671 |
| Speed (rpm)         | 1500           |     |
| Cycle               | 4              |     |
| Displacement (lt)   | 18,1           |     |
| Number of cylinders | 6, in line     |     |
| Bore & Stroke       | 145 x 183      |     |
| Compression ratio   | 14 : 1         |     |

|                                        |                            |     |
|----------------------------------------|----------------------------|-----|
| Governor type                          | Electronic                 |     |
| Induction                              | TURBOCHARGED - INTERCOOLER |     |
| Combustion System                      | Direct                     |     |
| Cooling system                         | Water                      |     |
| Fuel consumption (lt/h)                | 100%                       | 162 |
|                                        | 75%                        | 118 |
|                                        | 50%                        | 80  |
| Total lubrication system capacity (lt) | 110                        |     |
| Total coolant capacity (lt)            | 68                         |     |



## 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

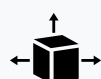
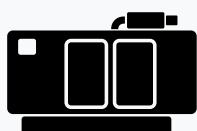
|                 |                   |
|-----------------|-------------------|
| Brand           | EMSA              |
| Model           | EGK355-600N       |
| Frequency (hz)  | 50                |
| Power (KVA)     | 850               |
| Design          | 4 pole, brushless |
| Connection type | Star              |
| Voltage (V)     | 400               |

|                          |         |
|--------------------------|---------|
| phase                    | 3       |
| A.V.R.                   | KR440   |
| Voltage regulation (+/-) | ± 1%    |
| Insulation system        | Class H |
| Protection               | IP23    |
| Rated power factor       | 0,8     |
| Weight (kg)              | 1965    |



## 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

2088x4470x3005 \*



Weight (Kg)

6715



Fuel tank capacity (lt)

1600

- 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

1800x3855x2561



Weight (Kg)

5347



Fuel tank capacity (lt)

1600

## 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