



MG-PRE-0022/M

PERKINS Series Diesel Generator Sets

Stand by	COS PHI	0,8	1
	kVA	22	
	kW	17,6	

PRIME	COS PHI	0,8	1
	kVA	20	
	kW	16	



PERKINS



EMSA



Smart 500 mk



Water Cooled



50 hz



1 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	404A-22G1	
Power	Stand by kW	20,3
	Prime kW	18,4
Speed (rpm)	1500	
Cycle	4	
Displacement (lt)	2,216	
Number of cylinders	4, in line	
Bore & Stroke	4 x 100	
Compression ratio	23,3 : 1	

Governor type	Mechanic	
Induction	Natural	
Combustion System	Indirect	
Cooling system	Water	
Fuel consumption 100% (lt/h)	5,3	
	75%	4
	50%	2,9
Total lubrication system capacity (lt)	10,6	
Total coolant capacity (lt)	7	



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	EGK180-36N2	
Frequency (hz)	50	
Power (KVA) (Phi 0,8/1)	29/23	
Design	4 pole, brushless	
Connection type	Double Delta	
Voltage (V)	220	

phase	1	
A.V.R.	SX460	
Voltage regulation (+/-)	± 1%	
Insulation system	Class H	
Protection	IP23	
Rated power factor		
Weight (kg)	222	



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

900x1900x1220



Weight (Kg)

736,6



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

900 x 1600 x 1220



Weight (Kg)

583



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

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