

22kVA Deisel Generator

Diesel Generator Sets

STAND BY	kVA	22
PRIME	kVA	20



Water Cooled
3 phase



50 hz
Diesel



Easy maintenance
Warning system for decreasing fuel with electronic fuel level sender



Modular type sound- proof canopy
Remote control system

Standby Rating for a standby engine should be sized for a maximum of 70% average load factor and roughly 200 hours per year. Standby power ratings should never be applied except in true emergency outage situations. With standby rated generators there is no overload capability built into the units.

Continuous Power is used in applications where supplying power is at a constant %100 load for an unlimited number of hours each year. Continuous power rated units are most widely used in applications where the power grid is unreachable.

Prime Power is the maximum power accessible at the variable load for an unlimited number of hours per year in a variable load setting. It is not advisable that the variable load exceed 70% average of the prime power rating during any operational period. If the engine is running at 100% prime power, yearly hours should not exceed 500. Overload situations should be avoided however a 10% overload capability is available for a 1 hour period within a 12 hour cycle of operation.

Engine Specifications

- PERKINS or equivalent 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 or latest	
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 AND STROKE	4 x 100	
COMPRESSION RATIO	23,3 : 1	

GOVERNOR TYPE	Mechanic	
Induction	NATURAL	
COMBUSTION SYSTEM	INDIRECT	
Cooling System	WATER	
FUEL CONSUMPTION	100% OF PRIME POWER	5,3(lt/h)
	75% OF PRIME POWER	4
	POWER	
	50% OF PRIME POWER	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	STAMFORD or equivalent	
MODEL	S0L2-G1	
FREQUENCY (HZ)	50	
POWER (KVA)	22	
DESIGN	4 pole, brushless	
CONNECTION TYPE	Star	
VOLTAGE (V)	400	

Phase	3	
A.V.R.	DM710	
VOLTAGE REGULATION (+/-)	± 1%	
INSULATION SYSTEM	Class H	
PROTECTION	IP23	
RATED POWER FACTOR	0,8	
WEIGHT COMP. ALTERNATOR (KG)	97	

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

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



Dimensions
(W x L x H) mm 900x1950x1337



Dimensions
(W x L x H) mm 900x1600x1145



Weight (Kg) 630,8



Weight (Kg) 446



Fuel tank capacity (lt) 82
Internal type



Fuel tank capacity (lt) 82
Internal type



Internal type

SILENCER OPTIONS

- Standard industrial type
- Critical type
- Hospital type

CANOPY OPTIONS

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

GEN-SET SAFETY PROTECTION & ALARMS

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

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

- 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