### 33Kva Deisel Generator

#### **Diesel Generator Sets**

STAND BY	kVA	33
PRIME	kVA	30



Water Cooled

3 phase

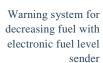


50 hz

Diesel



Easy maintenance





odular 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 suppliying 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

MODEL	1103A-33	1103A-33G or latest	
POWER	STAND BY kW	30,4	
	PRIME kW	27,7	
SPEED (rpm)		1500	
Cycle		4	
DISPLACEMEN	NT (lt)	3,3	
NUMBER OF C	CYLINDERS	3, in line	
BORE AND ST	ROKE	105 x 127	
COMPRESSION	N RATIO	19,25 : 1	

- Oil discharge valve and extention 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

Induction	NATURAL	
COMBUSTION SYS		
	LEM	DIRECT
Cooling System		WATER
FUEL	100% OF	7,2 l/h
CONSUMPTION	PRIME POWE	ER
	75% OF PRIM	E
		5,61
	POWER	
	50% OF	4,6
	PRIME	,
	POWER	
TOTAL LUBRICATI	ON SYSTEM C	APACITY (lt) 8,3
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

BRAND	STAMFORD or equivalent		
MODEL	S0L2-P		
FREQUENCY (HZ)	50		
POWER (KVA)	33		
DESIGN	4 pole, brushless		
CONNECTION TYPE	Star		
VOLTAGE (V)	400		

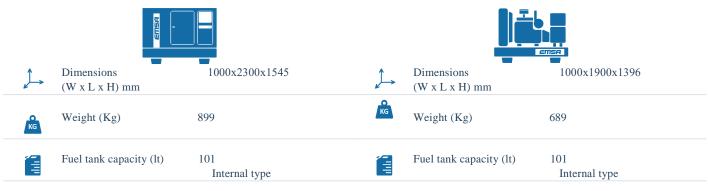
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid

Phase	3	
A.V.R.	AS540	
VOLTAGE REGULATION (+/-)	± 1%	
INSULATION SYSTEM	Class H	
PROTECTION	IP23	
RATED POWER FACTOR	0,8	
WEIGHT COMP. ALTERNATOR (KG)	132	

### **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-flammeable acoustic foam
- Nano tech cleaning system
- Container optional





#### Internal type

#### SILENCER OPTIONS

- Standard industrial type
- Critical type
- Hospital type

#### **CANOPY OPTIONS**

- Standard canopy
- Super silent canopy
- Extra süper silent canoy (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

#### **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