## 110 kVA Diesel Generator Sets

STAND BY	kVA	110
PRIME	kVA	100









**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.

**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.

**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

## **Engine Specifications**

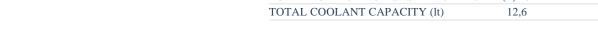
- PERKINS or equivalent series heavy duty diesel engine
- 4 cycle, water cooling system, turbocharged intercooler induction
- Electronic governor system
- 12/24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Flexible fuel pipe

MODEL	1104C-44TAG2		
POWER	STAND BY kW	99,5	
	PRIME kW	90,1	
SPEED (rpm)		1500	
Cycle		4	
DISPLACEMENT	(lt)	4,4	
NUMBER OF CYLINDERS		3, in line	
BORE AND STRO	OKE	105 x 127	
COMPRESSION I	RATIO	18,2:1	

<ul> <li>Oil discharge valve and extention pipe</li> </ul>	•	Oil	discharge	valve	and	extention	pipe
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- 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

GOVERNOR TYPE	Electronic		
Induction	TURBOCHARGED -		
INTERCOOLER COM	MBUSTION SYSTEM	1	
DIRECT			
Cooling System	7	WATER	
FUEL	100% OF	22,6	
CONSUMPTION	PRIME POWER		
(lt/h)	75% OF PRIME	17,1	
	POWER		
	50% OF	11,2	
	PRIME		
	POWER		





# **Alternator Specifications**

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter

STAMFORD or equivalent	
UCI274C	
50	
110	
4 pole, brushless	
Star	
400	
	UCI274C 50 110 4 pole, brushless Star

- 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.	SX460	
VOLTAGE REGULATION (+/-)	± 1%	
INSULATION SYSTEM	Class H	
PROTECTION	IP23	
RATED POWER FACTOR	0,8	
WEIGHT COMP. ALTERNATOR (KG)	406	

### **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





1000x2600x1535



Dimensions (W x L x H) mm





Weight (Kg)

1346,4



Weight (Kg)

1110



Fuel tank capacity (lt)

139

Internal type



Fuel tank capacity (lt)

139 Internal type



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