


110 kVA Diesel Generator Sets


STAND BY	kVA	110
PRIME	kVA	100




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.

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 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

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 STROKE	105 x 127	
COMPRESSION RATIO	18,2 : 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
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GOVERNOR TYPE		Electronic
Induction	TURBOCHARGED -	
INTERCOOLER COMBUSTION SYSTEM		
DIRECT		
Cooling System	WATER	
FUEL	100% OF	22,6
CONSUMPTION	PRIME POWER	
(lt/h)	75% OF PRIME	17,1
	POWER	
	50% OF PRIME POWER	11,2
TOTAL LUBRICATION SYSTEM CAPACITY (lt) 8		
TOTAL COOLANT CAPACITY (lt) 12,6		



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	UCI274C	
FREQUENCY (HZ)	50	
POWER (KVA)	110	
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.	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-flammable acoustic foam
- Nano tech cleaning system
- Container optional



Dimensions
(W x L x H) mm 1000x2600x1535



Weight (Kg) 1346,4



Fuel tank capacity (lt) 139
Internal type



Internal type



Dimensions
(W x L x H) mm 1000x2200x1385



Weight (Kg) 1110



Fuel tank capacity (lt) 139
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

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