

Diesel



Watercooled

Frequency



Model: ETBG880 INDUSTRIAL RANGE Powered by MTU







Generating Rates

POWER RATING		PRIME	STANDBY
POWER	kVA	800	880
	kW	640	700
Rated Speed	r.p.m	1500	
Standard Voltage	V	400	
Available Voltages	V	400/230 - 230/132 - 230 V	
Rated at power factor	Cos Phi	0.8	

Ambient conditions of reference: 1000 mbar, 25°C, 30% relative humidity. Power according to ISO 3046 normative.

P.R.P. Prime Power - ISO 8528 : prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available forgoverning purposes only.

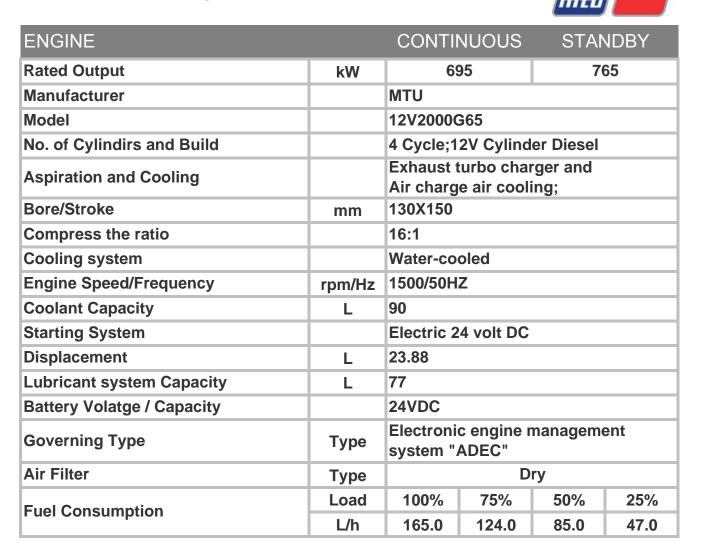
Standby Power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year – 90% load 200h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network.



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Engine Specifications 1500 r.p.m.



ENGINE--Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

COOLING--Radiator and colling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 45 °C,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

ELECTRICAL SYSTEM--24V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM--Heavy duty industrial exhauset silencer with flexible piping.





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Alternator Technical Specifications

ALTERNATOR BRAND		LEROY SOMER STAMFORD	
Model		LSA49.1M75	HCI634G
Exciter System		Self-excited, brushless	
Poles	Num	4	
Cooling Fan		Cast alloy aluminum	
Bearing		Single,double shielded	
Windings		100% copper	
Connection Type		Reconnectable	
Insulation Type	Class	Class H	
Pitch		2/3	
Amortisseur Winding		Full	
Voltage Regulator		A.V.R. (Electronic)	
Steady Voltage Precision		± 1%	
Underspeed Protection		Standard	
Overexcitation Protection		IP23	
TIF (1960 Weightings)		<50	

ALTERNATOR--Brushless,self exciting,self regulation,sreen protected,drip proof rated in accordance with IEC60034.Voltage regulation maintainted within ±0.5% from no load to full load.between 0.8 lagging and unity.All standard voltages available.



Smartgen[®]



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Control Panel Technical Specifications

Control Panel- SMARTGEN 6110/6120

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

a)Instruments:Analogue Volmeter,Hours Run Meter.Water pressure Meter.

- b) Controls: Emergency Stop Pushbutton, Volmeter Phase Selector Switch.
- c) Control module:Standard collocation is smartgen Auto start with AMF.

Main Features:

ΔAutomatic mains failureΔEngine control, Generator protectionΔBuilt in alarms and warningsΔRemote Start operation availableΔFuel pump controlΔMains simulationΔBlock heater controlΔField adjustable parametersΔFree MS-Windows Remote monitoringΔLED displaysΔConfigurable analogue inputsΔI/O expansion capability



WARNING Battery charge failure Low battery voltage SHUT DOWNS Fail to start Emergency stop Low oil pressure High engine temperature Over /Under speed Under/over generator frequency Failed to reach loading voltage Electrical trip Generator over current



Instruments

ENGINE Engine speed Oil pressure Coolant temperature Run time Battery volts TOR Voltage (L-N) Current (L1-L2-L3) Frequency Mains Voltage (L-L, L-N)





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Generating Sets Standard Features

Three phase four wire,output voltage 400V/230V,50HZ,between 0.8 lagging,protection capability according with the standard of NAME1 and IP23.

General Features:

ΔComposed of MTU diesel engine and Stamford or Leroy somer alternator

ΔOil and fuel filter fitted,water separator

∆Lube-oil drain valve fitted

ΔElectric Starter Charge motor 24 VD.C

∆Water-cooled

 $\Delta 8$ -hours operation base tank

∆ Auto start

ΔOptional soundproof and weatherproof canopy

Δ3 pole MCCB Delixi breaker

ΔOperation & Maintenance manual

ΔSpecial Integrated Steel Base tank and sprayed overall in gloss enamel paint

Voltage Regulation:

Voltage regulation maintanined within ±0.5% Between 0.8 and 1.0 lagging and unity From no load to full load At speed droop variation upto 4.5%

Frequency Adjustable Ratio:

Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation:

load from 0-100%, frequency undulation within 0.25% No load wire volts max undulation ration\ within 1.8% Three Phrase balanced load in the order of 5% Effect factor of Telecom TIF better than 50 THF to IEC60034 Part 40 better than 2%



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Soundproofed Version Features

Robust Corrosion Resustant Construction

- Δ Black finish stainless stell lock and hinges
- Δ Body made from steelcomponents treated with polyester powder coating

Excellent Access for Maintenance

 Δ Two large doors on each side

- Δ Radiator fill access plate
- Δ lube oil and cooling water drains pipes to exterior of the enclosure

Security and Safety

- Δ Control panel viewing window in a lockable access door
- Δ Emergency stop push buttom (red)mounted on enclosure interior
- Δ Cooling fan and battery charging alternator fully guarded
- Δ Exhaust silencing system totally enclosed for operator safely





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Generating Sets other Features

Generating Sets Optional Features

ΔLow fuel level alarm shutdownΔAutomatic Fuel Filling SystemΔEngine oil feeding and drain pumpΔAuto Transfter Switch(ATS)ΔParallel control panelsΔCircuit Breaker MCCB & ACBΔRemote Control PanelΔweatherproof/soundproof CanopyΔTrailer type Gensets

Quality Standards

ISO9001:2000,ISO14000,ISO3046 ISO8528 BS4999 BS5514,AS1359,ICE34 CE Compliance

Gensets Dimensions & Weight

Open type:LxWxH (mm) Net Weight Kgs

4100*1580*2130 / 7000

Open type:LxWxH (mm) Net Weight Kgs

20' Standard Container / 11500

Authorized

