

Model: ETBG2375

INDUSTRIAL RANGE

Powered by MTU

Diesel



Watercooled

50_{Hz}

Frequency









Generating Rates

POWER RATING		PRIME	STANDBY	
POWER	kVA	2200	2375	
	kW	1760	1900	
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		CONTIN	NUOUS	STAN	NDBY
Rated Output	kW	1965		2162	
Manufacturer		MTU			
Model		16V4000G63			
No. of Cylindirs and Build		4 Cycle; 16V Cylinder Diesel			
Aspiration and Cooling		turbo charger			
Bore/Stroke	mm	170X210			
Compress the ratio		16.5:1			
Cooling system		Water-cooled			
Engine Speed/Frequency	rpm/Hz	1500/50HZ			
Coolant Capacity	L	225			
Starting System		Electric 24 volt DC			
Displacement	L	76.3			
Lubricant system Capacity	L	300			
Battery Volatge / Capacity		24VDC			
Governing Type	Туре	Electronic engine management system "ADEC"			
Air Filter	Туре	Dry			
Fuel Consumption	Load	100%	75%	50%	25%
	L/h	442.0	335.0	235.0	131.0

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		LSA51.2VL85	PI734G	
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.





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Smartgen[®]

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

Protection Circuits

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 alternatorΔOil and fuel filter fitted,water separatorΔLube-oil drain valve fittedΔElectric Starter Charge motor 24 VD.CΔWater-cooledΔ8-hours operation base tankΔ Auto startΔOptional soundproof and weatherproof canopyΔ3 pole MCCB Delixi breakerΔOperation & Maintenance manualΔSpecial 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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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

5900*2630*2800/17500

Silent type:LxWxH (mm) Net Weight Kgs

N/A

Authorized

