60 Hz

Model: ETBG2530

INDUSTRIAL RANGE
Powered by MTU

mtu

STAMFORD power generation

LEROY SOMER

Generating Rates

POWER RATING		PRIME	STANDBY
POWER	**kVA**	**2300**	**2530**
	kW	**1840**	**2024**
Rated Speed	**r.p.m**	**1800**	
Standard Voltage	**V**	**480**	
Available Voltages	**V**	**480/277-440/254-220/127-208/120**	
Rated at power factor	**Cos Phi**	**0.8**	

Ambient conditions of reference: 1000 mbar, 25ºC, 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

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 i

POWERED BY MTU
DIESEL GENERATOR SET

60 Hz

Model: ETBG2530
INDUSTRIAL RANGE
Powered by MTU

Engine Specifications 1800 r.p.m.

ENGINE		CONTINUOUS		STANDBY	
Rated Output	kW	2020		2222	
Manufacturer		MTU			
Model		16V4000G43			
No. of Cylindirs and Build		4 Cycle;16V Cylinder Diesel			
Aspiration and Cooling		Exhaust turbo charger and Air charge air cooling;			
Bore/Stroke	mm	170X210			
Compress the ratio		16.5			
Cooling system		Water-cooled			
Engine Speed/Frequency	rpm/Hz	1800/60HZ			
Coolant Capacity	L	685			
Starting System		Electric 24 volt DC			
Displacement	L	76.3			
Lubricant system Capacity	L	300			
Battery Volatge / Capacity		24VDC			
Governing Type	Type	Electronic engine management system "ADEC"			
Air Filter	Type	Dry			
Fuel Consumption	Load	100%	75%	50%	25%
	L/h	475.0	361.0	255.0	150.0

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 ℃,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.

60 Hz

Model: ETBG2530
INDUSTRIAL RANGE
Powered by MTU

LEROY SOMER

STAMFORD power generation

Alternator Technical Specifications

ALTERNATOR BRAND		LEROY SOMER	STAMFORD
Model			PI734E
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.

60 Hz

Model: ETBG2530
INDUSTRIAL RANGE
Powered by MTU

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.

Smartgen®

Main Features:

ΔAutomatic mains failure

ΔEngine control,Generator protection

ΔBuilt in alarms and warnings

ΔRemote Start operation available

ΔFuel pump control

ΔMains simulation

ΔBlock heater control

ΔField adjustable parameters

ΔFree MS-Windows Remote monitoring

ΔLED displays

ΔConfigurable analogue inputs

ΔI/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)

60 Hz

Model: ETBG2530

INDUSTRIAL RANGE
Powered by MTU

Generating Sets Standard Features

Three phase four wire,output voltage 480V/277V,60HZ,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

ΔLube-oil drain valve fitted

ΔElectric Starter Charge motor 24 VD.C

ΔWater-cooled

Δ8-hours operation base tank

Δ 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%

60 Hz

Model: **ETBG2530**
INDUSTRIAL RANGE
Powered by MTU

Generating Sets other Features

Generating Sets Optional Features

ΔLow fuel level alarm shutdown
ΔAutomatic Fuel Filling System
ΔEngine oil feeding and drain pump
ΔAuto Transfter Switch(ATS)
ΔParallel control panels
ΔCircuit Breaker MCCB & ACB
ΔRemote Control Panel
Δweatherproof/soundproof Canopy
ΔTrailer 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

5800*2630*2800 / 16500

Open type:LxWxH (mm) Net Weight Kgs

N.A

Authorized

ETONE®
never stop running
www.etonepower.com