GAS GENERATOR

SN Engineering

Gas Generator Power Solutions come in many shapes & sizes and we meet your power needs especially for green fuel. We are a dependable power solution provider across the India and proven across various extreme climatic conditions – Gas engine and alternator manufacturers.

We offer customized Gas Generators, along with control system, acoustic, exhaust solution that are designed to perfectly suit your situation.

Welcome to SN Engineering GAS Genset Solutions! We are leading suppliers of GAS generator system in India, finding application in government complexes, industries, medical centers, commercial shops, arena and various other community organizations. We have been pioneers in natural gas industry in India with profiles encompassing manufacturing of High-Pressure Gas Cylinders and importing of conversion kits. SN Engineering also converts Diesel Generator into Dual fuel System and thoroughly understands the principles of conversion, sustainability and long-term maintenance.

Advantages of SN Engineering GAS Generator

Cost effective solutions in Indian market

• Reduces diesel fuel consumption up to 100%

• Reduces fuel cost

• Low maintenance

• No major changes in the basic generator configuration.

• No loss of power after conversion

ECO Friendly

Environment Fiendly

Our Strength

Well Trained Engineers and Technicians, most of the Engineers and Technicians are trained by Europeans experts • Genuine Parts, the parts imported from different countries • Spares are readily available. • Quality Products, all the products are manufactured as per International automotive standards. • Warranty Coverage is of 2 Years • After sales service is given with priority. Autogen offers innovative and efficient technologies that enhances the performance, reliability, and environmental sustainability of diesel generator sets. We understand the growing need for cleaner and more cost-effective power solutions. Our dual fuel systems enable diesel gensets to operate on a combination of diesel and natural gas. This dual fuel capability brings numerous benefits to our customers, including: Environmental Friendliness: By utilizing natural gas, our dual fuel systems significantly reduce emissions, such as nitrogen oxides

SN Engineering GAS Generator Model

GeneratorsetModel		20GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		25/20
RatedCurrent(A)		36
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		1400x600x1200
NetWeight(kg)		460
Engine	Model	NQ25D2.5
	Type	Inline,4strokes,electriccontrolignition,pre-mixed stoichiometry burn, natural aspiration
	CylinderNumber	4
	BorexStroke(mm)	90x100
	TotalDisplacement(L)	2.545
	CompressionRatio	9.6
	RatedPower(kW)	25
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturalgas
Alternator	Model	XN184E
	Brand	SN ENGINEERING
	Shaft	Single bearing
	RatedPower(kW)	22
	Enclosureprotection	IP23
	Efficiency(%)	84.9
Controlpanel	Model	20KZY,
	Displaytype	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

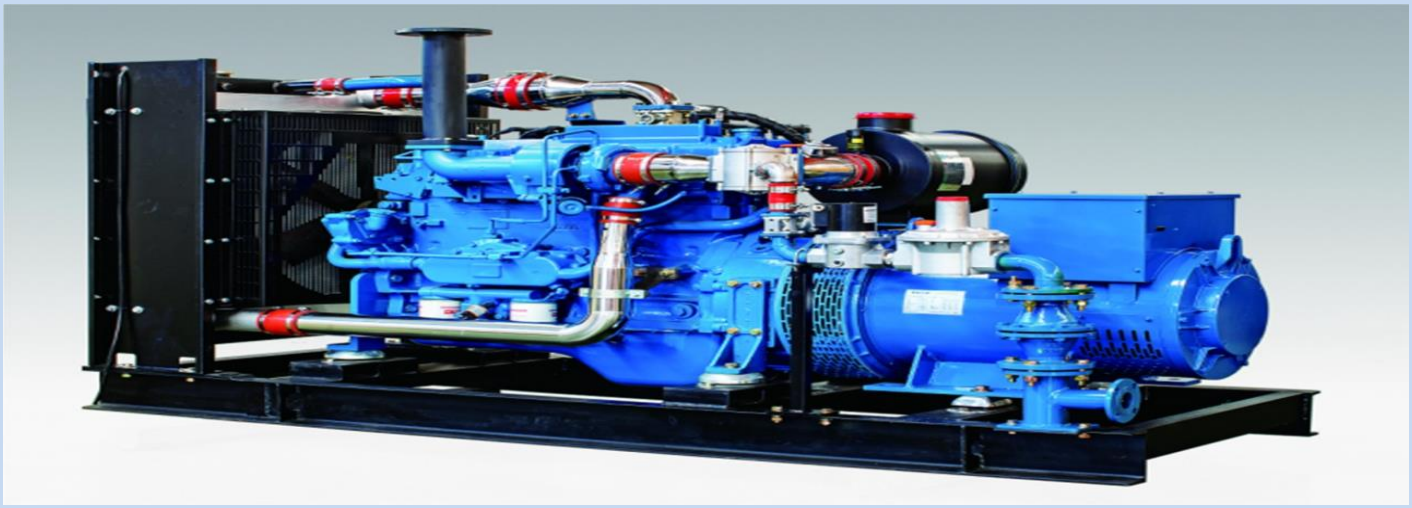
50kwspec

GeneratorsetModel		50GFT-2
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		62.5/50
RatedCurrent(A)		90
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		2000X900X1400
NetWeight(kg)		1000
Engine	Model	NW52D5.5
	Type	Inline,4-stroke,electriccontrolignition,pre-mixed stoichiometry burn,natural aspiration
	CylinderNumber	4
	BorexStroke(mm)	110X135
	TotalDisplacement(L)	5.132
	CompressionRatio	10.5
	RatedPower(kW)	55
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	NaturalGas
Alternator	Model	XN244E
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	50
	Enclosureprotection	IP23
	Efficiency(%)	88.6
Controlpanel	Model	50KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

80KWspec

GeneratorsetModel		80GFT-1
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		100/80
RatedCurrent(A)		144
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		2600X1000X1600
NetWeight(kg)		1480
Engine	Model	ND68D9TL
	Type	Inline,4strokes,electriccontrolignition,watercooled,pre-mixed lean burn, turbocharged and intercooled
	CylinderNumber	6
	BorexStroke(mm)	105X130
	TotalDisplacement(L)	6.754
	CompressionRatio	10.5
	RatedPower(kW)	90
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	NaturalGas
Alternator	Model	XN274C
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	80
	Enclosureprotection	IP23
	Efficiency(%)	90.4
Controlpanel	Model	80KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

GeneratorsetModel		100GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		120/100
RatedCurrent(A)		180
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		2950x1000x1750
NetWeight(kg)		1650
Engine	Model	NY103D12(AVLtechnology)
	Type	Inline,4strokes,watercooling,electronicignition,pre-mixed stoichiometry burn, natural aspiration
	CylinderNumber	6
	BorexStroke(mm)	112x132
	TotalDisplacement(L)	7.803
	CompressionRatio	11.5
	RatedPower(kW)	120
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturalgas
Alternator	Model	XN274DS
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	100
	Enclosureprotection	IP23
	Efficiency(%)	90.8
Controlpanel	Model	100KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand



160KWspec

GeneratorsetModel		160GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		200/160
RatedCurrent(A)		288
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		3400x1300x1800
NetWeight(kg)		2560
Engine	Model	NY103D17TL
	Type	Inline,4strokes,electriccontrolignition,watercooled,pre- mixed lean burn, turbocharged and intercooled
	CylinderNumber	6
	BorexStroke(mm)	123x145
	TotalDisplacement(L)	10.338
	CompressionRatio	9.5
	RatedPower(kW)	170
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturegas
Alternator	Model	XN274H
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	200
	Enclosureprotection	IP23
	Efficiency(%)	92.5
Controlpanel	Model	160KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

200KW Spec

GeneratorsetModel		200GFT
Structure		Integral
ExcitingMethod		AVRBrushl
RatedPower(kVA/kW)		250/200
RatedCurrent(A)		360
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		3400x1300x1800
NetWeight(kg)		2560
Engine	Model	NS118D23TL
	Type	Inline,4-stroke,electriccontrolignition,watercooled, pre-mixed lean burn, turbocharged and intercooled
	CylinderNumber	6
	BorexStroke(mm)	128x153
	TotalDisplacement(L)	11.813
	CompressionRatio	11.5
	RatedPower(kW)	230
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturegas
Alternator	Model	XN4C
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	200
	Enclosureprotection	IP23
	Efficiency(%)	92.5
Controlpanel	Model	200KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

260kW spec

GeneratorsetModel		260GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		325/260
RatedCurrent(A)		469
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		3650x1300x2000
NetWeight(kg)		3400
Engine	Model	ND159D28TL(Deutztechnology)
	Type	Vtype,4strokes,electriccontrolignition,watercooled,pre-mixed lean burn, turbocharged and intercooled
	CylinderNumber	8
	BorexStroke(mm)	132x145
	TotalDisplacement(L)	15.874
	CompressionRatio	11.5
	RatedPower(kW)	280
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturegas
Alternator	Model	XN4E
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	260
	Enclosureprotection	IP23
	Efficiency(%)	93.1
Controlpanel	Model	260KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

300kW spec

GeneratorsetModel		300GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		375/300
RatedCurrent(A)		541
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		3850x1800x1990
NetWeight(kg)		3950
Engine	Model	NY163D33TL(AVLtechnology)
	Type	Inline,4-stroke,electriccontrolignition,watercooled, turbocharged and intercooled, lean burn
	CylinderNumber	6
	BorexStroke(mm)	145x165
	TotalDisplacement(L)	16.348
	CompressionRatio	11.5
	RatedPower(kW)	330
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturalgas
Alternator	Model	XN4F
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	300
	Enclosureprotection	IP23
	Efficiency(%)	93.0
Controlpanel	Model	300KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

350kW spec

GeneratorsetModel		350GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		437.5/350
RatedCurrent(A)		631
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		3900x1800x2395
NetWeight(kg)		4980
Engine	Model	NY196D40TL(AVLtechnology)
	Type	Inline,4-stroke,electriccontrolignition,watercooled, turbocharged and intercooled, lean burn
	CylinderNumber	6
	BorexStroke(mm)	152X180
	TotalDisplacement(L)	19.597
	CompressionRatio	11.5
	RatedPower(kW)	400
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturalgas
Alternator	Model	XN5C
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	350
	Enclosureprotection	IP23
	Efficiency(%)	93.8
Controlpanel	Model	350KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

400KWspec

GeneratorsetModel		400GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		500/400
RatedCurrent(A)		720
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		3880x1300x2000
NetWeight(kg)		4300
Engine	Model	ND1238D44TL(Deutztechnology)
	Type	Vtype,4strokes,electriccontrolignition,watercooled,pre- mixed lean burn, turbocharged and intercooled
	CylinderNumber	12
	BorexStroke(mm)	132x145
	TotalDisplacement(L)	23.811
	CompressionRatio	11.5
	RatedPower(kW)	440
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturegas
Alternator	Model	XN4E
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	400
	Enclosureprotection	IP23
	Efficiency(%)	93.1
Controlpanel	Model	400KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

500kWspec

GeneratorsetModel		500GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		625/500
RatedCurrent(A)		900
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		5400X2250×2540
NetWeight(kg)		7900
Engine	Model	NY396D55TL(AVLtechnology)
	Type	Inline,4strokes,electriccontrolignition,watercooled,pre- mixed lean burn, turbocharged and intercooled
	CylinderNumber	6
	BorexStroke(mm)	200X210
	TotalDisplacement(L)	39.584
	CompressionRatio	11
	RatedPower(kW)	430
	RatedSpeed(rpm)	1500
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Biomassgas
Alternator	Model	XN4D
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	500
	Enclosureprotection	IP23
	Efficiency(%)	94.4
Controlpanel	Model	500KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smartgenbrand

GeneratorsetModel		700GFT
Structure		Integral
ExcitingMethod		AVRBrushless
RatedPower(kVA/kW)		875/8700
RatedCurrent(A)		1260
RatedVoltage(V)		400/230
RatedFrequency(Hz)		50/60
RatedPowerFactor		0.8LAG
OverallDimension(LxWxH)(mm)		4180x1300x2000
NetWeight(kg)		7300
Engine	Model	12M33D800E310N(Baudouin/WEICHA)
	Type	Vtype,4strokes,electriccontrolignition,watercooled,pre-mixed lean burn, turbocharged and intercooled
	CylinderNumber	12
	BorexStroke(mm)	150x185
	TotalDisplacement(L)	39.231
	CompressionRatio	11.5
	RatedPower(kW)	800
	RatedSpeed(rpm)	1500/1800
	SpeedRegulationMode	Electrical
	StartingMode	Electrical
	Fuel	Naturegas
Alternator	Model	XN4E
	Brand	SN ENGINEERING
	Shaft	Singlebearing
	RatedPower(kW)	700
	Enclosureprotection	IP23
	Efficiency(%)	96.1
Controlpanel	Model	700KZY,
	DisplayType	Multi-functionLCDdisplay
	Controlmodule	HGM9320orHGM9510,Smart

1.Technical parameters of gas generator

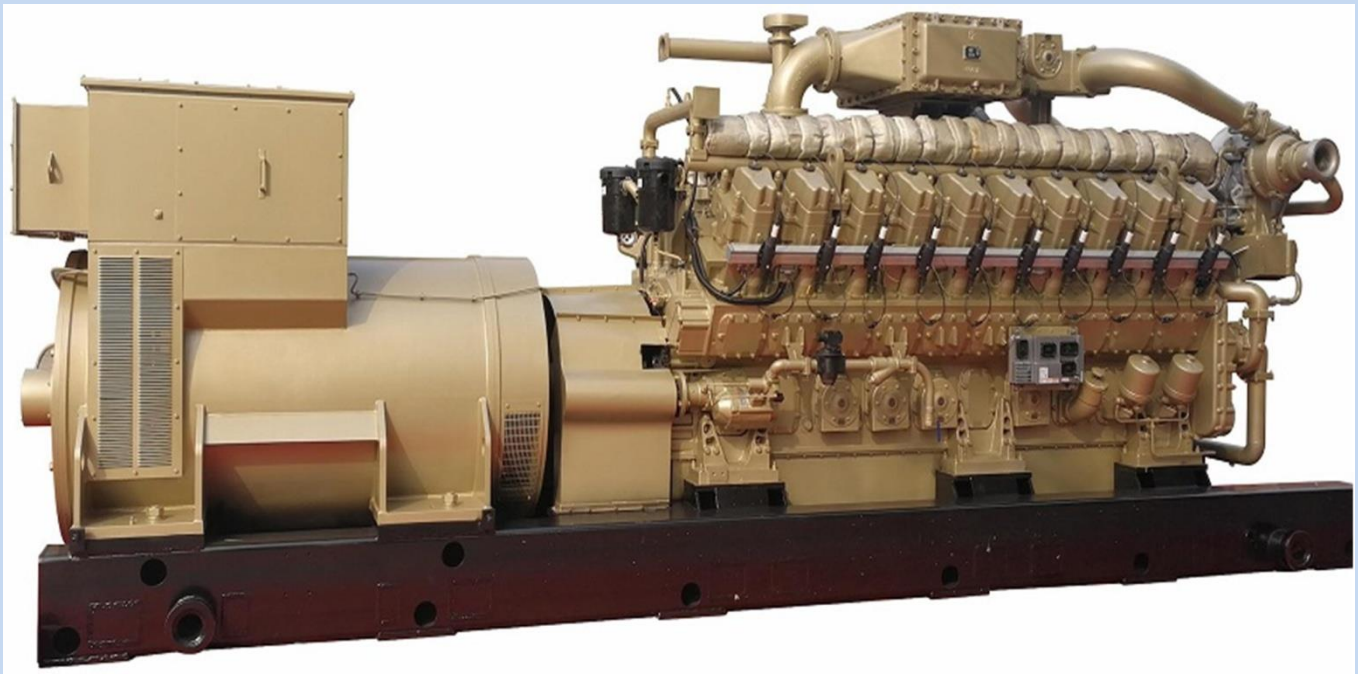
Thermalefficiency	40.6%
Startingmode	Electricalstarter
Coolingmode	HorizontalFan&radiatorwatercooling
Operatingmode	Electriccontrol
Connectionmodel	Elasticcoupling
Stabilizedvoltageregulation	<±2.5%
Voltagefluctuation	±1.0%
Instantaneousvoltageregulation/	-15%～+20%
Voltagerecoverytime	1.5s
Stabilizedfrequencyregulation/	0～5%（adjustable）
Frequencyfluctuation	0.5%
Instantaneousfrequencyregulation/	±10%
Frequencyrecoverytime	≤7s
OverallDimensions	60000x2300x2800mm
Weight	17t
2）Gasenginedata	
Modle	L20V200ZLT-2
Fule	Naturalgas
Type	Four stroke， spark plug ignition, water cooled, turbo-turbocharged and after-cooled.
No.ofCylinder&CylinderArrangement	12cylinderVType、12V
Bore×Stroke/	200mm×255mm
Ratedspeed/	1000r/min
Ratedpower	1320kW
Gassupplypressure/	1～4bar

Gasconsumption	≤8850kJ/kWh
Lub-oilconsumption/	≤0.6g/kW • h
Lubricationmethod	Pressureandsplashlubrication/
Startingmethod	Electricalstarterstarter
Directionofrotation	Counter-clockwise(facingtoflywheel)
3）Alternatordata	
Ratedpower	1200kW
Ratedvoltage	400V
Ratedcurrent	2162.4A
Ratedfrequency	50Hz
Powerfactor	0.8(lag)
Ratedspeed	1000r/min
Connectionmode	Y
Insulationgrade	F
Environmenttemperature/	-20℃～30℃
Altitude/	≤1000m
Protectionlevel/	IP23
Ventilationmode	Selfventilation(IC01)
Excitationmode	Permanentself-excitationandconstantvoltage(AVR)
Ratedefficiency	95.6%
Directionofrotation	Clockwise(viewedfromthedriveendofthegenerator)
Relativevoltagesettingrange	±5%
Instantaneousvoltagedeviation	±1%
Instantaneous voltage deviation when the load increase	-15%
Instantaneous voltage deviation when the load decrease	+20%
Recoverytime	＜1.5

Shortcircuitcurrentcapability	300%In:2s

1)Gasgenerator	
Gasgeneratormodel	1200GF20-T
Gasenginemodel	L12V200ZLT-2
Ratedpower	1200kW
ContinuousPower	1100kW@25°C
Ratedfrequency	50Hz
Ratedpowerfactor	0.8（Lag）
Ratedvoltage	400V
Ratedspeed	1000r/min

WaveformDistortionRateTHD	≤5%
TelephoneharmonicfactorTHF	≤3%



Annexure–IV

TechnicalSpecifications

GeneratorsetModel	600EFT
Structure	Integral
ExcitingMethod	AVRBrushless
RatedPower(kVA/kW)	750/600
RatedCurrent(A)	1080
RatedVoltage(V)	400/230
RatedFrequency(Hz)	50
RatedPowerFactor	0.8LAG
Noise(dB(A))opentype	≤106(1mawayfromgenset)
Noise(Db)withsoundproofcanopy	≤75(1mawayfromgenset)
Maxgasconsumption(m^3/h)	≤150(standardnaturalgas)
Electricityefficiency(%)	≥37
TotalHeatefficiency(%)(includeexhaustgasrecycle)	≥83
Oilconsumption(g/KW.h)	0.8
ExhaustgastemperatureC	≤550
OverallDimension(LxWxH)(mm)	4912×2100×2250 (withoutRadiator)
NetWeight(kg)	8400

model..... YC12VTDG-800N5LC

ratedvoltage V

ratedcurrent 1443.4A

frequency.....50Hz

power factor .....0.8（lag）

power efficiency.....≥38%

gasconsumptionn .....241 m³/h

noise ..... ≤105dB(A)@1mwithoutcanopyandwithcanopy75DB

startingway.....electrical

weight.....8215kg+CANOPYWEIGHT5000KGARROUND

engine parameter

enginemodel.....YC12VTD1320N-D30

rated power 880kWratedrpm1500r/min

no.ofcylinder.....12

configuration:V shape,fourstroke,watercooling,

BoreXstroke ..... 152mm×180mm

displacement 39.2L

compressionratio 12.5:1

controlsystem ..... ECUcontrol

oilconsumption.....≤0.3g/kWh

Coolantcapacity(notinclude.Radiator).....153L

oilcapacity 210L

overhaulperiod 40000h

alternatorparameter

alternatormodel. YC-800-4/EVOTECBRANDAlternatorTCU368H

wiringway.....3 phase, 4 line Yshape）

voltageregulation .....AVR

protectionlevel.....P21

insulationlevel ..... Fheatbalanceparameter

（±8%）cylindercoolant'sheat.....419kW

（±8%）oilcooler'scoolantheat.....182kW

（±8%）hightemp.coolingsystem'scoolanttotalheat 601kW

（±8%）intercooler'scoolantheat 172kW

（±8%）low-temp.coolingsystem'scoolant'stotalheat.....172kW

Exhaustheat'sheatexhaustreachesupto120℃）：8%.....401kW

accessories'powerloss.....22kW

（±8%）totalradiationheat 66kW

coolingsystemparameter

high-temprecycledwaterflow.....73..5m³/h

（±2%）cylinderwaterintaketemp..... 79℃

（±2%）cylinderwateroutlettemp ..... 86℃

low temp.recycledwatertemp.....42m³/

±2%）low-tempwaterintaketemp ..... 40℃

±2%）low-tempwateroutlet temp..... 43.5℃

airintakeandexhaustparameter

air intakeflow.....4060.1kg/h

gasintakeflow 156.6kg/h

displacement .....4216.7 kg/h

（±5%）turborearexhausttemp.....428℃

testingcondition

gasheatvalue.....9.1kWh/m³

methanevolumn% .....≥95%

gastemp .....10~40℃

gashumidity..... ＜60%

gasintakevoltage.....10~30kPa

air intakebackpressure..... ＞-3kPa

exhaustbackpressure..... ＜5kPa

absolutegaspressure.....101.32kPa

ambienttemp.....25℃

relativehumidity .....≤30%

altitude .....≤1000m

。Allthetestingresultofthegasgensetare testedunderabovecondition

±2%) low-tempwaterintaketemp ..... 40℃

±2%) low-tempwateroutlet temp..... 43.5℃

airintakeandexhaustparameter

air intakeflow.....4060.1kg/h

gasintakeflow 156.6kg/h

displacement .....4216.7 kg/h

(±5%) turborearexhausttemp.....428℃

testingcondition

gasheatvalue.....9.1kWh/m³

methanevolumn% .....≥95%

gastemp .....10~40℃

gashumidity..... ＜60%

gasintakevoltage.....10~30kPa

air intakebackpressure..... ＞-3kPa

exhaustbackpressure..... ＜5kPa

absolutegaspressure.....101.32kPa

ambienttemp.....25℃

relativehumidity .....≤30%

altitude .....≤1000m

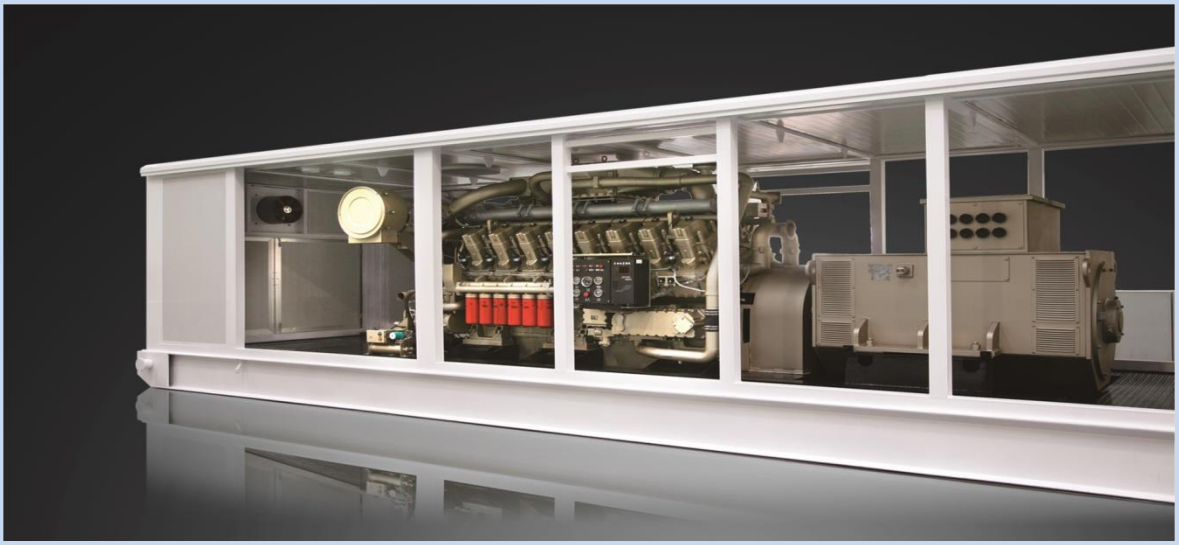
。Allthetestingresultofthegasgensetare testedunderabovecondition

1)Gasgenerator	
Gasgeneratormodel	1600GF-T
Gasenginemodel	L16V200ZLT-2
ContinuousPower	1400kW@40°C
Ratedfrequency	50Hz
Ratedpowerfactor	0.8（Lag）
Ratedvoltage	400V
Ratedspeed	1000r/min
Oilconsumption	≤0.6g/kWh
Thermalefficiency	40.6%
Startingmode	Electricalstarter电启动
Coolingmode	HorizontalFan&radiatorwatercooling
Operatingmode	Electriccontrol
Connectionmodel	Elasticcoupling
Stabilizedvoltageregulation/	<±2.5%
Voltagefluctuation	±1.0%
Instantaneousvoltageregulation/	-15%～+20%
Voltagerecoverytime	1.5s
Stabilizedfrequencyregulation/	0～5%（adjustable）
Frequencyfluctuation	0.5%
Instantaneousfrequencyregulation/	±10%
Frequencyrecoverytime	≤7s
OverallDimensions	8100x2300x2800mm
Weight/	23t
2）Gasenginedata	
Modle/	L16V200ZLT-2
Fule	Naturalgas

ContinuousPower	1400kW@40°C
Ratedfrequency	50Hz
Ratedpowerfactor	0.8（Lag）
Ratedvoltage	400V
Ratedspeed	1000r/min
Oilconsumption	≤0.6g/kWh
Thermalefficiency	40.6%
Startingmode	Electricalstarter电启动
Coolingmode	HorizontalFan&radiatorwatercooling
Operatingmode	Electriccontrol
Connectionmodel	Elasticcoupling
Stabilizedvoltageregulation/	<±2.5%
Voltagefluctuation	±1.0%
Instantaneousvoltageregulation/	-15%～+20%
Voltagerecoverytime	1.5s
Stabilizedfrequencyregulation/	0～5%（adjustable）
Frequencyfluctuation	0.5%
Instantaneousfrequencyregulation/	±10%
Frequencyrecoverytime	≤7s
OverallDimensions	8100x2300x2800mm
Weight/	23t
2）Gasenginedata	
Modle/	L16V200ZLT-2
Fule	Naturalgas

Type	Four stroke， spark plug ignition, water cooled, turbo-turbocharged and after-cooled.
No.ofCylinder&CylinderArrangement	16cylinderVtype
Bore×Stroke	200mm×255mm
Ratedspeed	1000r/min
Ratedpower	1760kW
Gassupplypressure	1～4bar
Gasconsumption	≤8770.0kJ/kWh
Lub-oilconsumption	≤0.6g/kW・h
Lubricationmethod/	Pressureandsplashlubrication/
Startingmethod	Electricalstarterstarter
Directionofrotation	Counter-clockwise(facingtoflywheel)
3）Alternatordata	
Ratedpower	1600kW
Ratedvoltage	400V
Ratedcurrent	2886A
Ratedfrequency	50Hz
Powerfactor	0.8(lag滞后)
Ratedspeed	1000r/min
Connectionmode	Y
Insulationgrade	F
Environmenttemperature	-20℃～30℃
Altitude	≤1000m

Protectionlevel	IP23
Ventilationmode	Selfventilation(IC01)
Excitationmode	self-excitationandconstantvoltage(AVR)
Ratedefficiency	95.6%
Directionofrotation	Clockwise(viewedfromthedriveendofthegenerator)
Relativevoltagesettingrange	±5%
Instantaneousvoltagedeviation	±1%
Instantaneous voltage deviation when the load increase	-15%
Instantaneous voltage deviation when the load decrease	+20%
Recoverytime	＜1.5
Shortcircuitcurrentcapability/	300%In:2s
WaveformDistortionRateTHD	≤5%
TelephoneharmonicfactorTHFTHF	≤3%



1.2SpecificationofEndumanCNG/PNGgasgenset

GcnsctsModel(KVA/KW		2500/2000			
Structure	Integrated				
ExcitingModeofAlternator	Brushless/AVR				
RatedPower(kW)		2000			
RatedCurrent(A)		3480			
RatedVoltage(V)	400/460				
RatedFrequency(Hz)	50 and 1000 RPM wit air starting system				
RatedPowerFactor	0.8LAG				
NoLoadVoltageRange	95%-105%				
Stablevoltageregulationrate	<+_1%				
instantleniousvoltageregulationrate	<+_15%—+20%				
Voltagerecovertime	<_3s				
Stablefrequencyregulationrate	<+_10%				
Instantaneousvoltageregulationrate	<+10%				
Frequencystabilizationtime	<_5s				
Linevoltagewaveoftime	<_2.5%				
Engine	Type	.			
	Model	L20V190ZLT-2		V-Type20cylinder4stroke,watercooled, turbocharged and aftercooled . electriccontrolignition.pre-mixed	
	CylinderNumber			20cylinder60°V-type	
	Bore*Stroke(mm)			190x255	
	TotalDisplacement(L)			144.6	
	Mean effective pressure(Mpa)			1.83	
	RatedPower(kW)			2200	
	RatedSpeed(r/min)	1000			
	SpeedRegulationMode	Electrical			
	StartingMode	Mechanical air start by air compressor			
	Fuel	CNGGas/naturalgas			
	MaximumGas Consumption(m3/h)			570m3/h	0.28m3/kw /h
NoisedB(A)				<93	
overhaulingcycle(h)	25000(1)			25000(1)	
Ov'eralldimension(L•W•H)(mrr1)	5900×2040×2586				
NetWeight(kg)	19000kg				

Notice(1):Engineoverhaulperiodisrelatedtouse**conditions,quality**of**lubricatingoil,** maintenancequality,load,installquality,fuelquality

1.Maintechnicalspecificationofnaturalgasgensets

Modelofgeneratingsets	2000EF-TK1
Modelofengine	L20V190ZLT-2
Ratedpower KW	2000
ContinuouspowerKW	1800
Ratedspeed r/min.	1000
Ratedvoltage V	400V
RatedfrequencyHz	50
Ratedpowerfactor	0.8
Supplymethod	3phases4lines
Excitationmethod	brushless
Startingmethod	Airstarter
Coolingmethod	Halfopentypewithheatexchanger
Speedmodulatemethod	Electroniccontrol
Netweight kg	30500
Overall dimensionL×B×H(mm) without Radiator	7850×2312×2786

2. Mainelectricalperformancedata

Voltage	Stableregulatingrate	±2.5%
	Instantaneousregulatingrate	≤±15%
	Recoverytime	≤2s
	Fluctuation	≤1%
Frequency	Stableregulatingrate	0～5%
	Instantaneousregulatingrate	≤±5%
	Recoverytime	7s
	Fluctuation	≤1%

1. Maintechnicalspecificationofnaturalgasgensets

Modelofgeneratingsets	2000GF-TK1
Modelofengine	L20V190ZLT-2
RatedpowerinKW	2000
ContinuouspowerinKW	1800
Ratedspeedr/min.	1000
RatedvoltageV	400V
RatedfrequencyHz	50

Ratedpowerfactor	0.8
Supplymethod	3phases4lines
Excitationmethod	brushless
Startingmethod	Airstarter
Coolingmethod	Halfopentypewithheatexchanger
Speedmodulatemethod	Electroniccontrol
Netweightkg	30500
OveralldimensionL×B×H(mm)	7850×2312×2786

2. Mainelectricalperformancedata

Voltage	Stableregulatingrate	±2.5%
	Instantaneousregulatingrate	≤±15%
	Recoverytime	≤2s
	Fluctuation	≤1%
Frequency	Stableregulatingrate	0～5%
	Instantaneousregulatingrate	≤±5%
	Recoverytime	7s
	Fluctuation	≤1%

3：Maintechnicaldataofengine

Modelofgasengine	L20V190ZLT-2
Ratedpower/speed	2200KW/1000rpm
Modelofcontrolsystem	EGS-06(WOODWARD)
Specificheatconsumption	≤8700KJ/KW.h
Specificoilconsumption	≤0.6g/KW.h
Numberandlayoutofcylinders	20,60°Vtype
Type	Four stroke, water cooled, turbocharged and aftercooled, direct injecton
Directionofrotation(facingtoend)	Counter-Clockwise
Lubricatingmethod	Pressureandsplashlubrication
Bore（mm）	190
Stroke(mm)	255
Totaldisplacement（L）	144.6

4.：

Meaneffectivepressure（Mpa）	1.83
Pistonspeed（m/s）	8.5
Exhausttemp.(℃)	<620
OveralldimensionL×B×H(mm)	5900×2040×2586
Netweight	19000kg