



Diesel Generator Set Data

Manufacturer:	Jiangsu Starlight Generating Equipments Co.,Ltd
Set Type:	XG-440GF
Standby Power:	440KW/550KVA
Prime Power:	400KW/500KVA
Rated Current:	720 (A)
Rated Frequency:	50 (Hz)
Start-up time:	5~6 (s)
Power Factor:	0.8 (Lag)
Rated Voltage:	400/230 (V)

Standard Features

- ✓ Engine:CCEC Cummins KTA19-G4
- ✓ Radiator 40℃ max
- ✓ Fans are driven by belt, with safety guard
- ✓ 24V charge alternator
- ✓ Dry type air filter, fuel filter, oil filter
- ✓ Alternator: single bearing alternator
- ✓ IP22, insulation class H/H
- ✓ Main line circuit breaker
- ✓ Standard control panel
- ✓ Absorber
- ✓ muffler

User manual





Diesel Engine Data

Manufacturer:	CCEC Cummins
Model:	KTA19-G4
Prime/Standby Power:	448KW/504KW
Rated Speed:	1500 (r/min)
Cycle:	4 stroke
Cylinder Arrangement:	6 in line
Displacement:	18.9L
Bore and Stroke:	159*159 (mm)
Compression Ratio:	14.5:1
Governor Type:	Electronic
Start battery voltage:	24V DC

Air Intake System

Air Intake System:	Turbo, Water/Air Cooling
Max Intake Restriction:	6.23kPa
Burning Capacity:	579L/s
Air Flow:	9800L/s

Exhaust System

Exhaust Gas Flow:	1604L/s
Exhaust Temperature:	557°C
Max Back Pressure:	10kPa

Fuel System

Fuel System:	PT type fuel pump, EFC
100%(Prime Power) Load:	203g/kwh

Oil System

Total Oil Capacity:	50L
Oil Consumption:	≤0.4g/kw • h
Engine Oil Tank Capacity:	38L
Oil Pressure at Rated RPM:	345-483kPa

Cooling System

Cooling Way:	Water-cooled
Total Coolant Capacity:	106L
Thermostat:	82-93°C
Max Water Temperature:	104°C



Alternator Data

Manufacturer:	STARLIGHT/ STAMFORD/ SIEMENS/ MARATHON/ ENGGA / KEPU
Excitation Mode:	Brushless and self- exciting
Number of phase and Access Act:	3-phase 4-wire
Connecting Type:	“Y” type connecting
Alternator Capacity:	500KVA
Alternator Efficiencies:	95%
Overload:	(PRP) 110% load can run 1h
Protection Level:	IP22-IP23
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	<50
THF:	<2%
Altitude:	≤1000m

Genset Electrical Performance

Voltage Regulation:	≥±5%
Voltage Regulation, Stead State:	≤±1%
Sudden Voltage Warp (100% Sudden Reduce):	≤+25%
Sudden Voltage Warp (Sudden Increase):	≤-20%
Voltage Stable Time (100% Sudden Reduce):	≤6S
Voltage Stable Time (Sudden Increase):	≤6S
Frequency Regulation, Stead State:	≤5%
Frequency Waving:	≤1.5%
Sudden Frequency Warp (100% SuddenReduce):	≤+12%
Sudden Frequency Warp (Sudden Increase):	≤-10%
FrequencyRecoveryTime(100%SuddenReduce):	≤5S
FrequencyRecoveryTime(Sudden Increase):	≤5S



Options

Engine

Heater 2KW & 4KW
Battery Charger 3.5A & 7A
Water Separator
Daily Fuel Tank
Fuel Level Sensor

Alternator

Anti Condensation Heater
Permanent Magnet Generator (PMG)
Drop CT (For Paralleling)

Control System

Remote Control Panel
Auto Transfer Switch (ATS)
Paralleling System

Others

Rainproof Type
Soundproof Type
Trailer Type

Standard Control Panel



Starlight Standard Control Panel uses micro processing technique integrating digital, intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses LCD display, optional Chinese and English display interface with operation easy and reliable. It can be widely used in all types of generator automatic control system for compact structure, advanced circuits, simple connections and high reliability



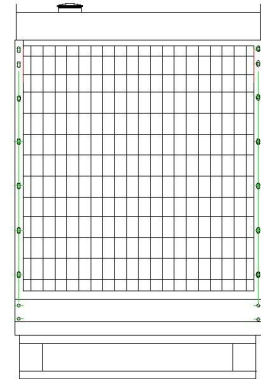
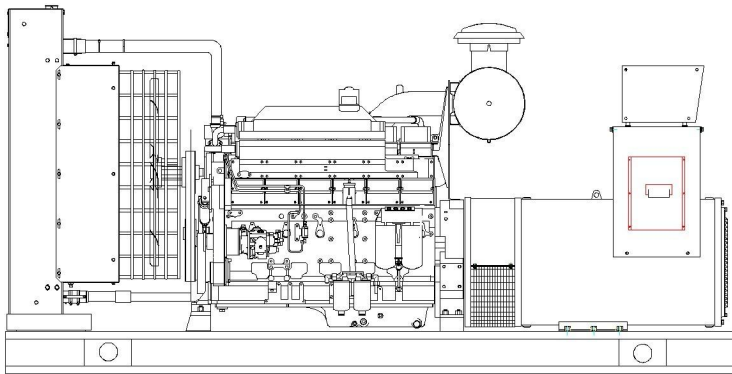
Open Type

Overall Size

3400(mm)*1360(mm)*1980(mm)

Weight

4150(kg)



Soundproof Type

Overall Size

4700(mm)*2200(mm)*2400(mm)

Weight

5500(kg)

