



StarLight Power

XG-280GF DIESEL GENSET

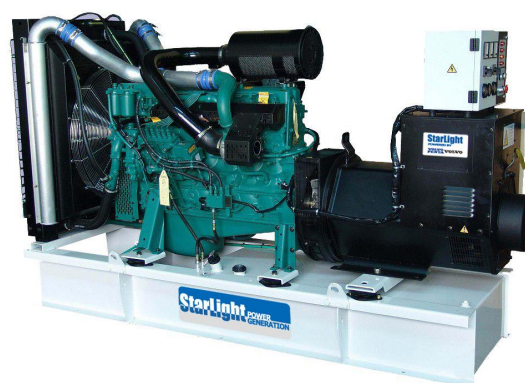
Power by **VOLVO PENTA**

Diesel Generator Set Data

Manufacturer:	Jiangsu Starlight Generating Equipments Co.,Ltd
Set Type:	XG-280GF
Standby Power:	280KW/350KVA
Prime Power:	250KW/312.5KVA
Rated Current:	450 (A)
Rated Frequency:	50 (Hz)
Start-up time:	5~6 (s)
Power Factor:	0.8 (Lag)
Rated Voltage:	400/230 (V)

Standard Features

- ✓ Engine:VOLVO TAD941GE
- ✓ 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:	VOLVO
Model:	TAD941GE
Standby/Prime Power:	307KW/279KW
Rated Speed:	1500 (r/min)
Cycle:	4 stroke
Cylinder Arrangement:	6 in line
Displacement:	9.36L
Bore and Stroke:	120*138 (mm)
Compression Ratio:	17.4:1
Governor Type:	Electronic
Start battery voltage:	24V DC

Air Intake System

Air Intake System:	Turbo, Air/Air Cooling
Max Intake Restriction:	5kpa
Burning Capacity:	19.6m ³ /min
Air Flow:	456 m ³ /min

Exhaust System

Exhaust Gas Flow:	52.2m ³ /min
Exhaust Temperature:	519℃
Max Back Pressure:	10kPa

Fuel System

Fuel System:	Elec. Injection, Elec. Fuel System
100%(Prime Power) Load:	194g/kwh

Oil System

Total Oil Capacity:	35L
Oil Consumption:	≤0.04L/h
Oil Pressure at Rated RPM:	350-600kPa

Cooling System

Cooling Way:	Water-cooled
Total Coolant Capacity:	41L
Thermostat:	82-92℃
Max Water Temperature:	103℃

**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:	312.5KVA
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% Sudden Reduce):	≤+12%
Sudden Frequency Warp (Sudden Increase):	≤-10%
Frequency Recovery Time (100% Sudden Reduce):	≤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



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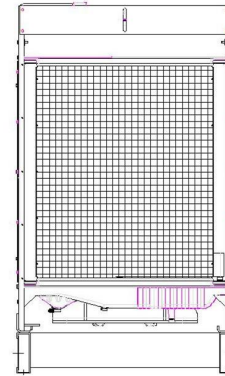
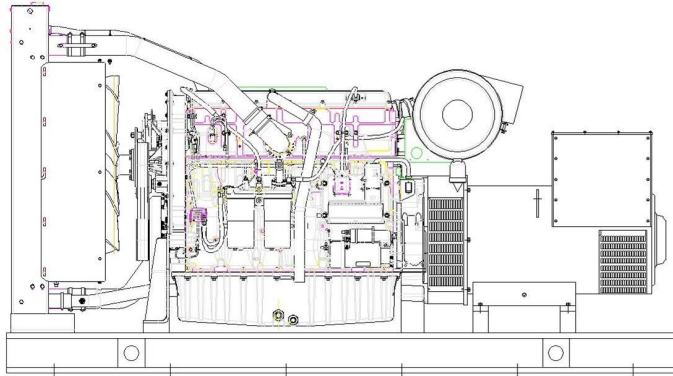
Open Type

Overall Size

2950(mm)*1120(mm)*1770(mm)

Weight

3000(kg)



Soundproof Type

Overall Size

4300(mm)*1800(mm)*2100(mm)

Weight

4300(kg)

