



Diesel Generator Set Data

Manufacturer:	Jiangsu Starlight Generating Equipments Co.,Ltd
Set Type:	XG-1680GF
Standby Output:	1680KW/2100KVA
Prime Output:	1500KW/1875KVA
Rated Current:	2700 (A)
Rated Frequency:	50 (Hz)
Start-up time:	5~6 (s)
Power Factor:	0.8 (Lag)
Rated Voltage:	400/230 (V)

Standard Features

- ✓ Engine: PERKINS 4016TAG2A
- ✓ Radiator 40°C 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:	PERKINS
Model:	4016TAG2A
Standby/Prime Power:	1942.6KW/1766KW
Rated Speed:	1500 (r/min)
Cycle:	4 stroke
Cylinder Arrangement:	16 "V"
Displacement:	61.12L
Bore and Stroke:	160*190 (mm)
Compression Ratio:	13.6:1
Governor Type:	Electronic
Start battery voltage:	24V DC

Air Intake System

Air Intake System:	Turbo
Max Intake Restriction:	6.25kPa
Burning Capacity:	117 m ³ /min
Air Flow:	2962m ³ /min

Exhaust System

Exhaust Gas Flow:	521 m ³ /min
Exhaust Temperature:	450°C
Max Back Pressure:	10.2kpa

Fuel System

Fuel System:	Direct injection
100%(Prime Power) Load:	207g/kwh

Oil System

Total Oil Capacity:	237L
Oil Consumption:	≤0. 4g/kWh
Oil Pressure at Rated RPM:	276-414kPa

Cooling System

Cooling Way:	Water-cooled
Total Coolant Capacity:	214 L
Thermostat:	85-95°C
Max Water Temperature:	103°C



Alternator Data

	STARLIGHT
	KEPU/
Manufacturer:	STAMFORD/
	SIEMENS/
	MARATHON/
	ENGGA
Excitation Mode:	Brushless and self- exciting
Number of phase and Access Act:	3-phase 4-wire
Connecting Type:	“Y” type connecting
Alternator Capacity:	1875KVA
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%
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

Open Type

Overall Size

6800(mm)*2780(mm)*3500(mm)

Weight

12000(kg)



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

Auto Module Control Panel



Auto Module Control Panel is the configuration for nobody on duty controlling generators. This kind of panel adopts auto module control system, with large LCD display to show the menu. Features: 6110 can receive remote output signal from ATS and realize auto start and stop of generators. 6310 can realize all functions of 6110, add RS232 interface which can communicate with PC to realize remote operation. 6410 Auto Mains Failure controller, can realize all functions of 6310, furthermore can detect ATS and control directly.

Auto Parallel Control Panel



This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.