



## Diesel Generator Set Data

|                  |                                                 |
|------------------|-------------------------------------------------|
| Manufacturer:    | Jiangsu Starlight Generating Equipments Co.,Ltd |
| Set Type:        | XG-75GF                                         |
| Standby Power:   | 75KW/93.75KVA                                   |
| Prime Power:     | 68KW/85KVA                                      |
| Rated Current:   | 123 (A)                                         |
| Rated Frequency: | 50 (Hz)                                         |
| Start-up time:   | 5~6 (s)                                         |
| Power Factor:    | 0.8 (Lag)                                       |
| Rated Voltage:   | 400/230 (V)                                     |

## Standard Features

- ✓ Engine:DCEC Cummins 6BT5.9-G1
- ✓ 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
- ✓ muffle
- ✓ User manual





## Diesel Engine Data

|                        |                |
|------------------------|----------------|
| Manufacturer:          | DCEC Cummins   |
| Model:                 | 6BT5.9-G1      |
| Standby Power:         | 92KW/125HP     |
| Rated Speed:           | 1500 (r/min)   |
| Cycle:                 | 4 stroke       |
| Cylinder Arrangement:  | 6 in line      |
| Displacement:          | 5.9L           |
| Bore and Stroke:       | 102*120 (mm)   |
| Compression Ratio:     | 17.5:1         |
| Governor Type:         | RSV Mechanical |
| Start battery voltage: | 24V DC         |

### Air Intake System

|                         |                         |
|-------------------------|-------------------------|
| Air Intake System:      | Air natural cooled      |
| Max Intake Restriction: | 6.35kPa                 |
| Burning Capacity:       | 6.48m <sup>3</sup> /min |
| Air Flow:               | 158m <sup>3</sup> /min  |

### Exhaust System

|                      |                         |
|----------------------|-------------------------|
| Exhaust Gas Flow:    | 16.8m <sup>3</sup> /min |
| Exhaust Temperature: | 565°C                   |
| Max Back Pressure:   | 10kPa                   |

### Fuel System

|                          |                   |
|--------------------------|-------------------|
| Fuel System:             | A model fuel pump |
| 100%( Prime Power) Load: | 216g/kwh          |

### Oil System

|                            |           |
|----------------------------|-----------|
| Total Oil Capacity:        | 16.4L     |
| Oil Consumption:           | ≤0.4g/kwh |
| Engine Oil Tank Capacity:  | 14.2L     |
| Oil Pressure at Rated RPM: | 345kPa    |

### Cooling System

|                         |              |
|-------------------------|--------------|
| Cooling Way:            | Water-cooled |
| Total Coolant Capacity: | 27L          |
| Thermostat:             | 82-95°C      |
| Max Water Temperature:  | 104°C        |



## Alternator Data

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| Manufacturer:                       | STARLIGHT/<br>STAMFORD/<br>SIEMENS/<br>MARATHON/<br>ENGGA /<br>KEPU |
| Excitation Mode:                    | Brushless and self- exciting                                        |
| Number of phase and Access Act:     | 3-phase 4-wire                                                      |
| Connecting Type:                    | “Y” type connecting                                                 |
| Alternator Capacity:                | 93.75KVA                                                            |
| 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

## 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



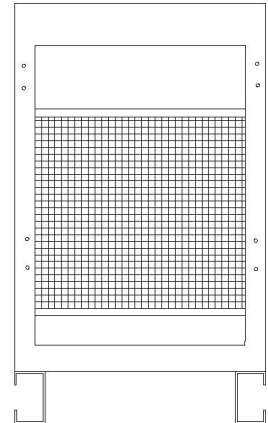
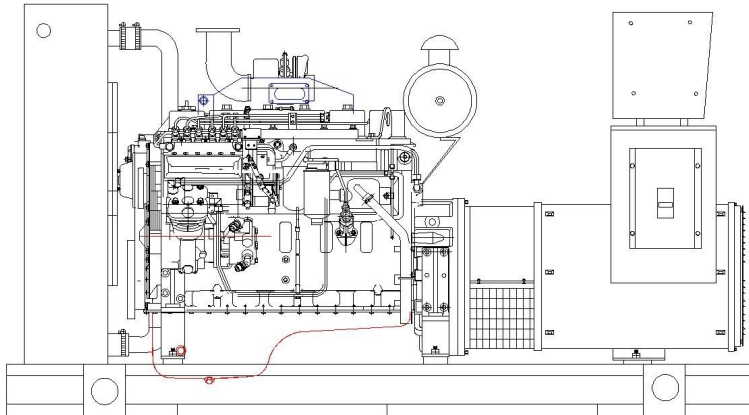
## Open Type

### Overall Size

2200(mm)\*850(mm)\*1300(mm)

### Weight

1180(kg)



## Soundproof Type

### Overall Size

2600(mm)\*1100(mm)\*1700(mm)

### Weight

1900(kg)

