



**ISO  
9001**  
QUALITY  
ASSURANCE

## 30kva Weichai silent diesel generator set

Gensets are compliant with ISO 9001 and CE standard, which include the following directives:  
EN ISO 12100:2010, EN ISO 8528-13:2016, EN 60204-1:2006+A1:2009+AC:2010, EN 55012:2007+A1:2009

### GENERATOR GENERAL DETAIL

|                        |                            |
|------------------------|----------------------------|
| Model                  | GFS-W30                    |
| Type                   | Silent type                |
| Prime power            | 24kw/30kva                 |
| Standby power          | 26.4w/33kva                |
| AC output              | Three phase 400V/230V 50Hz |
| Power factor(cosΦ )    | 0.8                        |
| Base frame fuel tank   | 70L                        |
| Dimension(L× W× H)(mm) | 1850*950*1100              |
| Net weight(kg)         | 800KG                      |

### ENGINE POWER TECHNICAL DATA

|                               |                    |
|-------------------------------|--------------------|
| Picture                       |                    |
| Model                         | WP2.3D33E200       |
| Base Output Power             | 30kw               |
| Engine type                   | 4 Cylinders L type |
| Rated Speed                   | 1500 rpm           |
| Bore× stroke                  | 89 x 92 mm         |
| Displacement                  | 2.3 L              |
| Fuel Consumption 100% loading | 7.9 L/hr           |
| Fuel Consumption 75% loading  | 5.7 L/hr           |
| Aspiration Type               | Natural Aspiration |
| Rotation from Flywheel End    | Anti-clockwise     |
| Combustion System             | Direct injection   |
| Cooling System                | Liquid Cooled      |
| Governor type                 | Mechanic           |

| ALTERNATOR TECHNICAL DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| STAMFORD BRUSHLESS TECHNOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 184GS                                                                                 |
| Picture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |
| Rated power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24kw/30kva                                                                            |
| Power factor(cosΦ )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.8                                                                                   |
| Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Brushless single bearing, revolving field                                             |
| Stator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2/3 pitch                                                                             |
| Rotor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Single bearing, flexible disc                                                         |
| Insulation system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Class H                                                                               |
| Standard temperature rise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 125–163 °C standby                                                                    |
| Exciter type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Self excited                                                                          |
| Phase rotation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Three phase                                                                           |
| Alternator cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Direct drive centrifugal blower fan                                                   |
| Voltage regulation, no load to full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +/- 1%                                                                                |
| AC waveform Total Harmonic Distortion (THDV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No load < 1.5%. Non distorting balanced linear load < 5%                              |
| Telephone Influence Factor (TIF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | < 50 per NEMA MG1-22.43                                                               |
| Telephone Harmonic Factor (THF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | < 2%                                                                                  |
| CONTROLLER AND PROTECTION SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |
| Make&Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Smartgen 6120NC with cloud 4G Module                                                  |
| Picture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| <p style="text-align: center;">Automatic Self-starting Control System</p> <p>1, Function: Control Panel provides necessary Monitoring, Control and Protection functions for the diesel genset.</p> <p>2, Installation: Free-standing, fully enclosed dust-tight design, having concealed hinges and locking handle.</p> <p>3, Generator Protections :a: Low oil pressure, b: Over temp. c: Over/low speed d:Charger failure</p> <p style="padding-left: 100px;">e:Over crank f:Stop failure</p> <p style="padding-left: 100px;">g:Low/high charge voltage h:Emergency</p> <p style="padding-left: 100px;">i:Common alarm j:Generating failure</p> |                                                                                       |

| STANDARD FEATURES                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Breaker                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 poles main circuit breaker                                                         |
| Silencer                                                                                                                                                                                                                                                                                                                                                                                                                                            | Heavy duty industrial type super silencer with flexible elbow                        |
| Radiator                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50 °C ambient radiator with safty guard                                              |
| Battery                                                                                                                                                                                                                                                                                                                                                                                                                                             | High capacity sealed maintenance free battery                                        |
| Emergency stop button                                                                                                                                                                                                                                                                                                                                                                                                                               | Y                                                                                    |
| AVR and off-line charger                                                                                                                                                                                                                                                                                                                                                                                                                            | Y                                                                                    |
| Manuals                                                                                                                                                                                                                                                                                                                                                                                                                                             | Operation& Maintenance manuals of engine, alternator and controller                  |
| <b>ATS 160A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     | Aisikai                                                                              |
| ATS(Automatic Transfer Switch) system, automatically start the generator when power outage, and automatically shut down the generator when electric power comes back.                                                                                                                                                                                                                                                                               |  |
| WARRANTY POLICY                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                      |
| <p>Guarantee for 14 months or 1200 hours (whichever comes earlier) from ex-factory date. During the guarantee period, our company will provide the free easy damaged spare parts for problems caused by our quality of production or raw material, except the damageable spare parts of diesel engine caused by customer's man-made incorrect operation.</p> <p>After expiration,our company provides cost spare parts maintenance for gen-set.</p> |                                                                                      |
| PAYMENT TERM AND DELIVERY                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                      |
| 30% deposit and balance before shipment                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |
| Within 25 working days delivery after the 30% down payment.                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      |