



## TEKSTER DIESEL GENERATOR MODEL TK-20GF 50Hz@1500RPM



**PRP** • Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97; A 10% overload capability is available for a period of 1 hour within a 12-hour of operation.

**ESP** • The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

### QUOTATION SHEET

Genset Model	Prime Power KW/KVA	Engine Model Weichai	Alternator Model Kaihua	Set	Unit Price Open Type AMF with VAT	Unit Price Silent Type AMF with VAT
TK-20GF	20/25	WP2.3D25E200	KH184F	1	159,800.00	217,100.00
Payment	15% deposit and balance on or before delivery					
Validity	15 days since the date of quotation					
Lead Time	30 working days after receiving deposit					

### GENERAL QUOTATION

- ✓ **CE:** All Tekster diesel generator sets have approved CE certificate.
- ✓ **ISO9001:** Tekster diesel generator sets' design and manufacturing facilities have approved ISO9001 standard.
- ✓ **Weichai OEM Certificate**

### DESCRIPTION

- ✓ High quality, reliable and complete power unit.
- ✓ Compact design.
- ✓ Easy start and maintenance start.
- ✓ All generator sets are gone through rigorous testing before being released to the market place, including 50% load, 75% load, 100% load, 110% load and all protection function (low oil pressure, high water temperature, over speed, over load).
- ✓ Fully engineered with a wide range of options and accessories.

## DIESEL GENERATOR SET

Gensets Model	TK-20GF
Prime Power	20KW/25KVA
Standby Power	22KW/27.5KVA
Rated Voltage (V)	400
Rated Current (A)	36
Rated Frequency (Hz)	50
Rated Speed (RPM)	1500
Power Factor (COS $\phi$ )	0.8(lagging)

## ENGINE DATA

Engine brand	Weichai
Engine model	WP2.3D25E200
Number of Cylinders	4
Cylinder arrangement	L type
Cycle	Four stroke
Aspiration	Naturally Aspirated
Combustion System	Direct Injection
Bore×Stroke (mm×mm)	89×92
Displacement (Liter)	2.289
Cooling System	Water cooled
Speed Governor	Electrical
Lube oil Capacity (Liter)	8
Starting Method	DC 12V electrical starting
Coolant Capacity - engine only (Liter)	5
Fuel Consumption (100% load)	3.2L/h
Maximum Power @ 1500RPM	25kw/ 34hp
<b>Country of Origin</b>	<b>China</b>



## ALTERNATOR DATA

Alternator brand	Kaihua
Alternator model	KH184F
Number of Phase	3
Connecting Type	3 Phases and 4 Wires



Number of Bearing	Single
Protection Grade	IP23
Altitude	≤1000m
Exciter Type	Brushless ,self-exciting, AVR &100% copper winding wire
Insulation Class	H
Telephone Influence Factor (TIF)	≤50
Telephone Harmonic Factor(THF)	≤2%
Voltage Regulation, Steady State	±0.5%~±1.0%
Transient State Voltage	≤-15%~+20%



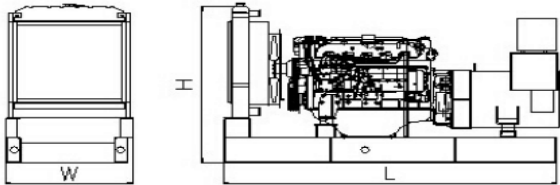
## CONTROL SYSTEM



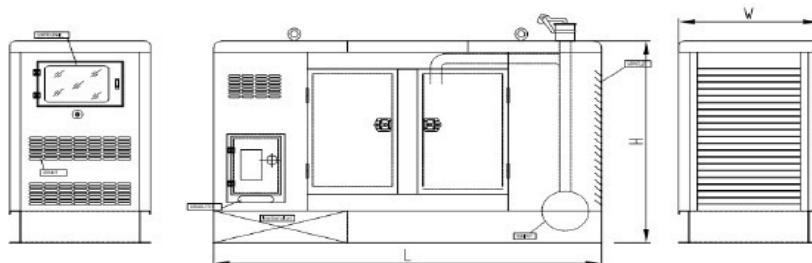
- 132\*64 LCD display with backlight, optional language interface (Chinese, English, Spanish and Russian), push-button operation;
- Acrylic screen, improved wearable and scratch resistance property;
- Silica-gel panel and keys can well adapt to higher and lower temperature;
- With RS485 communication port, can achieve “three remote” functions via MODBUS protocol;
- Adapt to 3P4W, 3P3W, 1P2W and 2P3W (120V/240V), 50Hz/60Hz AC power system;
- Can measure and display 3 phase voltage, 3 phase current, frequency, power parameter of mains/gens;
- Mains have functions of over/under voltage and lack of phase; Gens have functions of over/under voltage, over/under frequency and over current;
- Precision measure and display of parameters about engine,
- Control protection: Automatic start/stop of genset, load transfer (ATS control) and perfect failure display and protection;
- With ETS, idle speed control, pre-heat control, speed droop/raising control, all of them are relay output;
- Parameter setting: Allow user to modify setting and store them in internal FLASH memory. The parameters cannot be lost even when power off. All of parameters can be set not only from the front panel, but also use programmable interface (or PS485 interface) to adjust them via PC.;

**HGM6110UC**

## DIMENSIONS



**Open Type Dimension: 1450x700x1000(mm),  
Open Type Weight: 550kg**





**Silent Type Dimension: 1750x850x1100(mm),**  
**Silent Type Weight: 800kg**

## PROCESS FLOW

***Drawing***→***Cutting***→***Bending***→***Welding***→***Spraying***→***Assembling***→***Testing***



## SCOPE OF STANDARD SUPPLY

- Brand new Weichai diesel engine WP2.3D25E200.
- Brand new Kaihua AC brushless alternator IP22 KH164D.
- Radiator: 40°C for open type, 50°C ambient temperature for silent type mounted on skid.
- Smartgen HGM6110 control panel.
- Brand new 2mm thick cold steel fabricated soundproof canopy powder spray finished.
- Absorber, main line circuit breaker and dry type air filter, fuel filter, oil filter.
- 12V DC start motor, storage battery and battery charger.
- Standard accessories (such as operation manual, certificate of conformity and so on).

## OPTIONAL EQUIPMENTS

Engine& Radiator	Gen-set Type	Control System	Fuel System
<ul style="list-style-type: none"><li>● Spare Parts</li><li>● Oil</li></ul>	<ul style="list-style-type: none"><li>● Container type</li><li>● Trailer Mounted type</li></ul>	<ul style="list-style-type: none"><li>● Remote control panel</li><li>● Parallel Cabinet</li><li>● ATS</li></ul>	<ul style="list-style-type: none"><li>● Daily fuel tank</li><li>● Base fuel tank</li></ul>

## WARRANTY&SERVICE

- TEKSTER diesel generator sets are covered by an express written 1-year/1000hour (whichever occurs first) limited warranty.
- Provide technical service.
- Assist GA drawing of gen-set&schedule drawing of installation etc.
- Original manufacturer authorized spare parts service and dealer.