

2.Specification

General features:

- Engine:YangDong Y4110ZLD;
- Alternator:Hengsheng HSJ224G;
- Digital Controller:Smartgen HGM6120;
- Equipped with 50°C Fully copper radiator;
- Equipped with 24V DC Start motor;
- Equipped with 8 hours base fuel tank;
- Equipped with vibration Isolators between the engine/alternator and base frame;
- Equipped with high performance maintenance-free lead-acid starting batteries and battery switch;
- Equipped with industrial silencer and flexible exhaust hose;
- Designed to Comply with ISO9001&CE;
- Every generator set is subjected to a comprehensive test program which includes 50% load, 75% load,100% load, 110% load and the checking and proving of all control and safety shut-down functions;

WEIGHT AND DIEMENSIONS	
Size of Genset	2400(L)*1000(W)*1550(H)mm
Weight of Genset	1500kg

GENSET POWER				
Voltage	Hz	Phase	Power factor	Power
230V/400V	50Hz	3	0.8	87.5kva/70kw

Pictures for reference

Silent type(Color is optional)



GENSET DATA	
Generator set model	JHYD-70GF
Genset Power	87.5kva/70kw
Rated voltage	230V/400V
Mode of connection	3 phase 4 wire
Rated frequency	50Hz
Rated speed	1500rpm
Steady-state voltage adjustment rate	$\leq \pm 0.5\%$
Transient voltage adjustment rate	$\leq -15\% / +20\%$
Voltage stabilization time	$\leq 1.5\text{sec}$
Voltage fluctuation rate	$\leq 0.5\%$
Voltage waveform distortion	$\leq 8\%$
Steady frequency adjustment rate	$\leq 3\%$
Transient frequency adjustment rate	$\leq 10\%$
Frequency settling time	3sec
Frequency fluctuation	$\leq 0.25\%$

ENGINE DATA	
Engine model	YangDong Y4110ZLD
Engine standby power	80kw
No. of Cylinders	4 Cylinders
Aspiration	Turbocharged
Bore*Stroke	110mm*118mm
Compression Ratio	18:1
Cylinder arrangement	L Type
Cycle	4 Stroke
Displacement	4.484L
Combustion system	Direct Injection
Fuel consumption	212g/kw.h
Lube System Capacity	16L
Speed governor	Electric
Cooling system	Forced water cooling cycle
Steady speed droop	$\leq 1\%$
Starter Motor	DC24V

ALTERNATOR DATA	
Alternator model	Hengsheng HSJ224G
Power	87.5kva/70kw
Rated frequency	50Hz
Rated speed	1500rpm
Bearing Arrangement	Single
Material Insulation Class	H
Excitation System	Brushless, Self-excited
Ingress Protection	IP22
Pole No.	4
Voltage adjust rang	±5%

CONTROL PANEL

The Smartgen HGM6120 is an Digital Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs.

The control module gives digital readouts of:

- Generator voltage;
- Output frequency;
- Engine speed;
- Battery voltage;
- Engine hours run.

The control module has indicators for failure information:

- Over speed/Low speed,
- Emergency stop
- Low oil pressure;
- High water temperature
- Failure to start
- Battery charger failure

Automatic shutdown occurs under:

- Low engine oil pressure;
- High engine water temperature;
- Over speed/Low speed;
- Failure to start after three attempts.

