The engine and alternator are close coupled by means of an SAE flange. A full torsional analysis has been carried out to guarantee no harmful vibration will occur.

Anti-vibration pads are affixed between engine alternator feet and the base frame. Thus ensuring complete vibration isolation of the rotating assemblies and enabling the machine to be placed on an uneven surface without any detrimental effects.

For durability and corrosion resistance, all iron and steel surfaces of canopy fabrications have been treated for coating by grit blast cleaning. Then covered by special three layers painting which provides an excellent corrosion resistant surface.

YICHEONG Company provides one-source responsibility for the generator set and accessories. Each YICHEONG generating set has been got through 2 hours Load test for running 0%, 25%, 50%, 75%, 100% and 110% load, all protective devices and control function are simulated and checked before despatch.

Engine and Alternator are guaranteed for a period of 12 months from the date of commissioning or 18 months from shipping, whichever occurs first.

Convenience for operation and maintenance, backed by YUCHAI global service network.

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INTERNATIONAL STANDARD

3 W 4 P, 50hz @ 1500rpm, 400/230V
(380/220V, 415/240V are for optional)

60HZ, 1800RPM, 208V, 480V are different technical data

BENEFITS
※ Reliable service working, powerful, attractive appearance.
※ Low running cost (diesel fuel & oil, maintenance)
※ Easy for commissioning, operation and maintenance.

CONTROL SYSTEM/PROTECTION
※ Controllers are available for all applications. It contains DeepSea, Smartgen or other famous brands. According to their different functions, the control systems can be specified into key start controller, digital auto-start controller and PCRC three remote control systems. See controller features inside.

CRITERION
※ ISO8528, GB/T2820, ISO3046, BS4999, BS5514, BS5000

ALTERNATOR (Reliable)

Voltage regulation
Voltage regulation maintained with in ±0.5% as follow:
※ Power factor between 0.8-1.0 lagging.
※ From no load to full load, any steady load.
※ Speed droop variation under 5%.

Frequency/Speed undulation
※ 0-100% load, Frequency/Speed Droop Ratio <5%.
※ 25-100% load, any steady load undulation <0.25%.

Effect factor of telecom
※ TIF(MAMG1-22) < 50; THF(BS EN60034) < 2%

The 2/3 pitch design avoids excessive neutral currents. With the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion. Brushless alternator with brushless pilot exciter for excellent load response. The insulation system is class H, easy paralleling with mains or other generators, standard 2/3 pitch stator windings avoid excessive neutral currents. Backed by worldwide service network.

CONTROL SYSTEM

1. Standard: HGM170HC Key Start
Providing the standard functions as follows:
(Also can be made according to the customers' special requirements)
※ Start/Stop controller, Emergency stop pushbutton
※ Ampere meter, Voltmeter and selector switch, Frequency meter/Water temperature gauge/Oil pressure gauge/Hour counter/Battery voltage meter.
※ Alarm System: Over speed, High Engine Temperature, Low Oil Pressure, Charge Failure
※ Protection System: Over speed, High Engine Temperature, Low Oil Pressure, Emergency Stop. And the other protection function presetting.

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2. Option: Smartgen HGM6110 Digital Auto Start
3. Option: Smartgen HGM6120 Digital Auto Start (AMF)
   (Option assembled with the ATS)

Digital Auto-start Generator controller integrating digital, intelligent and network techniques is used for automatic control system of diesel generator. It can carry out functions including automatic start/stop, data measure and alarming. Optionally assembled with the ATS, it can carry out auto-switching between the outer power and generating set power. (AMF)

Functions:
- Automatic Start/Stop
- 3 start attempts failure and Automatic Crank Disconnect
- Parameters display (V/A/Hz/Hour)
- Engine monitoring and protection
- Charge alternator exciting and Charge alternator fail alarm
- Running hour counting
- Settings can be adjustable via key buttons on front panel

Warning:

<table>
<thead>
<tr>
<th>Warning:</th>
<th>Shutdown:</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Alternator Under/Over Voltage</td>
<td>* Loss of Speed Signal</td>
</tr>
<tr>
<td>* Alternator Under/Over Frequency</td>
<td>* Alternator Under/Over Voltage</td>
</tr>
<tr>
<td>* Mains Under/Over Voltage</td>
<td>* Alternator Under/Over Frequency</td>
</tr>
<tr>
<td>* Mains Under/Over Frequency</td>
<td>* Mains Under/Over Voltage</td>
</tr>
<tr>
<td>* Under/Over Speed</td>
<td>* Mains Under/Over Frequency</td>
</tr>
<tr>
<td>* Low Oil Pressure Pre-Alarm</td>
<td>* Under/Over Speed</td>
</tr>
<tr>
<td>* High Engine Temp. Pre-Alarm</td>
<td>* Low Oil Pressure</td>
</tr>
<tr>
<td>* High/Low Battery Voltage</td>
<td>* High Engine Temperature</td>
</tr>
<tr>
<td>* Over-current</td>
<td></td>
</tr>
<tr>
<td>* Periodic maintenance</td>
<td></td>
</tr>
</tbody>
</table>

Optional Parts:

<table>
<thead>
<tr>
<th>Engine</th>
<th>Alternator</th>
<th>Canopy</th>
<th>Fuel System</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Coolant &amp; oil heater</td>
<td>* PMG alternator</td>
<td>* Super silent (65-68Db@7m)</td>
<td>* Low fuel level alarm</td>
</tr>
<tr>
<td>* Mains Electricity Battery Charger</td>
<td>* Anti-damp/Anti-corrosion treatment</td>
<td>* Normal silent (75-78Db@7m)</td>
<td>* Automatic fuel feeding system</td>
</tr>
<tr>
<td><strong>Lubricating System</strong></td>
<td><strong>Control Panel</strong></td>
<td><strong>Exhaust Gas System</strong></td>
<td><strong>Cooling System</strong></td>
</tr>
<tr>
<td>* Oil with the machine</td>
<td>* Auto-paralleling cabinet</td>
<td>* Protection board from hotness</td>
<td>* Front heat protection</td>
</tr>
<tr>
<td></td>
<td>* Auto Transfer/changeover Switch (ATS)</td>
<td>* Low frequency silencer</td>
<td>* 50°C radiator</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Coolant(-30°C)</td>
</tr>
</tbody>
</table>

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### Specifications

**Genset Model** | **Prime power** | **Standby** | **Engine model** | **Alternator model** | **Dimension (L*W*H mm)** | **Fuel L/h**
---|---|---|---|---|---|---
YC12G | 12 | 15 | 13.2 | 16.5 | YC2108D | GM-12-4 | 1350*750*1200 | 4.2
YP14G | 14.4 | 18 | 16 | 20 | YC2108D | GM-16-4 | 1350*750*1200 | 4.7
YP20G | 20 | 25 | 22 | 27.5 | YC2115D | GM-20-4 | 1380*750*1200 | 6.3
YP24G | 24 | 30 | 26.4 | 33 | YC2115D | GM-24-4 | 1450*750*1200 | 7.5
YP32G | 32 | 40 | 35.2 | 44 | YC46D0-21 | GM-32-4 | 1900*780*1300 | 8.9
YP36G | 36 | 45 | 40 | 50 | YC46D0-21 | GM-40-4 | 1950*800*1300 | 9.4
YP40G | 40 | 50 | 44 | 55 | YC46D0-21 | GM-40-4 | 1950*800*1300 | 11.2
YP48G | 48 | 60 | 52.8 | 66 | YC46D0-21 | GM-48-4 | 1950*800*1300 | 11.8
YC64G | 64 | 80 | 70.4 | 88 | YC6B100-D20 | GM-64-4 | 2300*800*1300 | 18
YC72G | 72 | 90 | 80 | 100 | YC6B135Z-D20 | GM-70-4 | 2350*800*1300 | 20.5
YP80G | 80 | 100 | 88 | 110 | YC6B135Z-D20 | GM-80-4 | 2350*800*1300 | 21
YP90G | 90 | 112.5 | 100 | 125 | YC6B155L-D21 | GM-90-4 | 2480*820*1300 | 22.6
YC100G | 100 | 125 | 110 | 138 | YC6B170L-D20 | GM-100-4 | 2650*850*1300 | 25
YP110G | 110 | 137.5 | 120 | 150 | YC6B170L-D20 | GM-120-4 | 2670*850*1300 | 26.1
YP120G | 120 | 150 | 125 | 153 | YC6B210L-D20 | GM-120-4 | 2650*850*1300 | 28.4
YP128G | 128 | 160 | 140 | 175 | YC6A210L-D20 | GM-140-4 | 3250*950*1500 | 29.2
YP160G | 160 | 200 | 176 | 220 | YC6M285L-D21 | GM-160-4 | 3600*1250*1700 | 34
YP180G | 180 | 225 | 200 | 250 | YC6M285L-D21 | GM-180-4 | 3600*1250*1700 | 41
YP200G | 200 | 250 | 220 | 275 | YC6M350L-D21 | GM-200-4 | 3900*1400*2000 | 46
YP220G | 220 | 275 | 240 | 300 | YC6M350L-D21 | GM-220-4 | 3900*1400*2000 | 53
YP240G | 240 | 300 | 264 | 330 | YC6M350L-D21 | GM-240-4 | 4500*1500*2100 | 68
YP300G | 300 | 375 | 330 | 412.5 | YC6T600L-D20 | GM-300-4 | 4200*1400*1800 | 70
YP320G | 320 | 400 | 352 | 440 | YC6T600L-D20 | GM-320-4 | 4300*1450*1800 | 72
YP360G | 360 | 450 | 400 | 500 | YC6T600L-D20 | GM-360-4 | 4600*1500*1900 | 90
YP400G | 400 | 500 | 440 | 550 | YC6T600L-D20 | GM-400-4 | 4800*1600*2000 | 98
YP500G | 500 | 625 | 550 | 687.5 | YC6C900L-D20 | GM-500-4 | 5500*1700*2100 | 116
YP560G | 560 | 700 | 616 | 770 | YC6B170L-D20 | GM-560-4 | 6000*1800*2100 | 128
YP600G | 600 | 750 | 660 | 825 | YC6C1020L-D20 | GM-600-4 | 6500*1900*2100 | 140
YP640G | 640 | 800 | 704 | 880 | YC6C1020L-D20 | GM-640-4 | 6500*1900*2100 | 152
YP680G | 680 | 825 | 750 | 900 | YC6C1250L-D20 | GM-680-4 | 7000*2000*2100 | 164

**Shenzhen Yicheong Jichai Power Co., Limited**

Email: info@ycgenset.com

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