HONNY POWER

GUANGDONG HONNY POWER-TECH CO., LTD.

Product Catalogue

Power Solution

- Diesel & Gas Power Generators.
- Power Plant.
- Transformer Substation.
- CHP & CCHP System.

Generator Features

- Engine and alternator shall be mounted on a same frame steel skid. ·Built-in damper for anti-vibration.
- Small size, low weight, easy to operating, installation and maintenance. ·World most famous brand diesel engine, Googol based on USA
- World famous brand AC alternator
- Advanced and reliable controller: Auto start, AMF & Remote control by PC with RS232/485 ·Full range protect function and alarm shutdown feature.
- Comply with ISO8528 national standard and ISO9001 quality standard.

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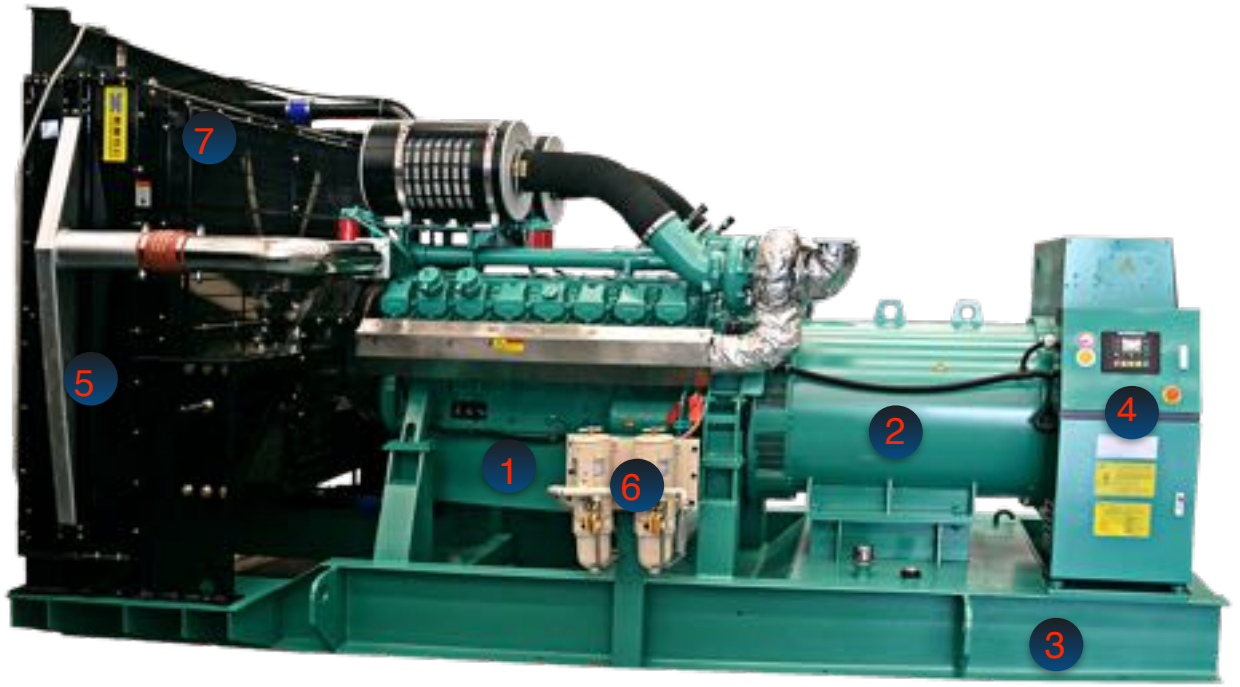
HONNY POWER®

Complete generator set

1. Diesel Engine
2. Generator
3. Heavy duty base skid
4. Advanced Control system suitable for various conditions by Key start, Auto start, AMF, Sync module.
5. Cooling system with radiator, remote, standard and tropical usage
6. Water-Fuel Separator
7. Protection Guard for Fan

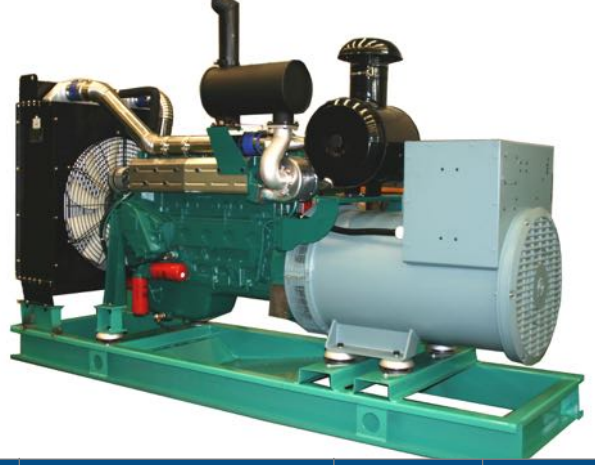
Standard Accessories

- Operation Manual
- ACB is optional for over 1600A
- MCCB Breaker
- Exhaust Silencer Flexible Pipe
- Starting Battery & Cables



Diesel Generator

Honny Googol Series
50Hz,1500rpm
15kVA-385kVA



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Genset Model	Prime Power (kW/kVA)	Standy Power (kW/kVA)	Fuel Consumption (g/kWh)	Engine Model	Bore x Stroke (mm)	Qua. Of Cylinder	Dimension Size L x W x H (mm)	Weight (kg)	Noise (dBA)
HYM15	10.8/13.5	12/15	250	YD480D	80 x90	4L	1600X700X1200	700	102
HYM17	12/15	13.2/16.5	247	YND485D	85 x95	4L	1600X700X1200	700	102
HYM23	16/20	18/22.5	247	YSD490D	90 x100	4L	1650X700X1200	720	102
HYM28	20/25	22/27.5	240	Y495D	95 x 105	4L	1700x700x1200	750	102
HYM33	24/30	26/32.5	237	Y4100D	100 x 118	4L	1700x700x1200	750	102
HYM39	28/35	30.8/38.5	235	Y4102D	101 x 118	4L	1800x700x120	800	102
HYM55	40/50	44/55	225	Y4102ZLD	102 x 118	4L	1800x700x1200	800	102
HYM63	45/56	50/62.5	220	Y4105ZLD	105 x 118	4L	2000x700x1200	850	102
HYM56	40/50	45/56	205	YC4D85Z	108 x 115	4L	2000x700x1300	900	102
HYM69	50/62.5	55/69	205	YC4D90Z	108 x 115	4L	2100x700x1300	950	102
HYM83	60/75	66/82.5	205	YC4A100Z	108 x 115	4L	2200x700x1300	950	102
HYM100	72/90	80/100	202	YC6B135Z	108 x 125	6L	2250x900x1400	1000	105
HYM110	80/100	88/110	200	YC6B155L	108 x 125	6L	2250x900x1400	1050	105
HYM138	100/125	110/137.5	200	YC6B180L	108 x 125	6L	2350x1050x1400	1100	105
HYM165	120/150	132/165	200	YC6B205L	108 x 125	6L	2500x1050x1500	1300	105
HYM193	140/175	154/192.5	197	YC6A230L	108 x 132	6L	2800X1050X1500	2200	105
HYM206	150/187.5	165/206	197	YC6A245L	108 x 132	6L	2800X1050X1500	2300	105
HYM220	160/200	176/220	195	YC6G270L	112 x 132	6L	2800X1050X1500	2400	105
HYM275	200/250	220/275	197	YC6MK350L	120 x 145	6L	2900x1100x1700	2500	105
HYM344	250/312.5	275/344	197	YC6MK420L	123 x 145	6L	3100x1100x1800	2600	105
HYM385	280/350	308/385	197	YC6MJ480L	131 x 145	6L	3100x1100x1800	2700	105

NOTE: 1.Rating Frequency 50Hz, 1500RPM, P.F. 0.8, Voltage 380/220V,400/230V, 415/240V.
2. Environment Condition: 1000 meter altitude, 40°C temperature.
3. All above parameters are only for reference. If any change, no notify separately.

Honny Googol Series
50Hz,1500rpm
400kVA-3300kVA

HONNY POWER

GOOGOL POWER

Genset Model	Prime Power (kW/kVA)	Standy Power (kW/kVA)	Fuel Consumption (l/h)	Engine Model	Bore x Stroke (mm)	Qua. Of Cylinder	Dimension Size L x W x H (mm)	Weight (kg)	Noise (dBA)
HGM450	320/400	360/450	88	PTAA780-G1	128 x 166	6L	3200x1230x1540	2750	105
HGM500	360/450	400/500	97	PTAA780-G3	128 x 166	6L	3200x1230x1540	2750	105
HGM550	400/500	440/550	107	PTAA780-G5	128 x 166	6L	3300x1350x1540	2950	105
HGM625	450/562.5	500/625	130	PTAA15EG1	128 x 142	8V	3100x1250x2000	3300	105
HGM688	500/625	550/687.5	143	PTAA1120-G3	128 x 142	10V	3200x1250x2000	3400	105
HGM825	600/750	660/825	167	PTAA1340-G5	128 x 142	12V	3500x1250x2000	4150	108
HGM880	640/800	704/880	173	PTAA22EG7	128 x 142	12V	3800x1600x2100	4500	108
HGM1000	720/900	800/1000	190	PTAA1780-G5	128 x 142	16V	4200x1780x2100	5800	108
HGM1100	800/1000	880/1100	205	PTAA1780-G7	128 x 142	16V	4200x1780x2100	5800	108
HGM1375	1000/1250	1100/1375	249	PTAA2230G3	128x142	20V	4600x1920x2580	8500	108
HGM1675	1200/1500	1340/1675	299	QTA3240-G5	170 x 195	12V	5100x2190x2600	10900	108
HGM1875	1350/1688	1500/1875	335	QTA3240-G7	170 x 195	12V	5400x2190x2700	11050	108
HGM2063	1500/1875	1650/2063	354	QTA3240-G9	170 x 195	12V	5400x2190x2700	11600	108
HGM2200	1600/2000	1760/2200	379	QTA4320-G3	170 x 195	16V	6000x2600x2800	15500	108
HGM2500	1800/2250	2000/2500	424	QTA4320-G5	170 x 195	16V	6000x2600x2800	15800	108
HGM2750	2000/2500	2200/2750	490	QTA4320-G7	170 x 195	16V	6200x2600x3200	16500	108
HGM2752	2000/2500	2202/2752	492	QTA5400-G1	170 x 195	20V	6800x2600x3500	18500	108
HGM3025	2200/2750	2420/3025	523	QTA5400-G3	170 x 195	20V	6800x2600x3500	19000	108
HGM3300	2400/3000	2640/3300	570	QTA5400-G5	170 x 195	20V	7000x2600x3700	19500	108

Honny Googol Series
60Hz,1800rpm
450kVA-2750kVA



Genset Model	Prime Power (kW/kVA)	Standy Power (kW/kVA)	Fuel Consumption (l/h)	Engine Model	Bore x Stroke (mm)	Qua. Of Cylinder	Dimension Size L x W x H (mm)	Weight (kg)	Noise (dBA)
HGM500/6	360/450	400/500	102	PTAA780-G2	128 x 166	6L	3200x1230x1540	2750	108
HGM550/6	400/500	440/550	112	PTAA780-G4	128 x 166	6L	3200x1230x1540	2750	108
HGM625/6	450/562.5	500/625	130	PTAA890-G2	128 x 142	8V	3000x1250x2000	3000	108
HGM688/6	500/625	550/687.5	145	PTAA1120-G2	128 x 142	10V	3200x1250x2000	3300	108
HGM825/6	600/750	660/825	171	PTAA1340-G2	128 x 142	12V	3300x1250x2000	3500	108
HGM900/6	640/800	720/900	187	PTAA1340-G4	128 x 142	12V	3500x1250x2000	3800	108
HGM1100/6	800/1000	880/1100	221	PTAA1780-G2	128 x 142	16V	4400x1900x2300	5500	108
HGM1250/6	900/1125	1000/1250	244	PTAA1780-G4	128 x 142	16V	4400x1900x2300	5800	108
HGM1375/6	1000/1250	1100/1375	252	PTAA2230-G2	128x142	20V	4800X1900X2300	6200	108
HGM1650/6	1200/1500	1320/1650	300	QTA3240-G2	170x195	12V	5100x2190x2600	10900	108
HGM1875/6	1360/1700	1500/1875	338	QTA3240-G4	170x195	12V	5100x2190x2600	11050	108
HGM2063/6	1500/1875	1650/2062.5	356	QTA3240-G6	170x195	12V	5400x2190x2600	11600	108

NOTE: 1.Rating Frequency 60Hz, 1800RPM, P.F. 0.8, Voltage 220/127V,440/254V, 480/277V.
2. Environment Condition: 1000 meter altitude, 40°C temperature.
3. All above parameters are only for reference. If any change, no notify separately.

HONNY POWER

High Voltage Generator

Application:

- ✓ Single Genset Output to Load with ATS for Grid
- ✓ Single Genset Synchronized onto Grid
- ✓ Multi-Genset Paralleling
- ✓ Multi-Genset Paralleling and Synchronized onto Grid.
- ✓ Multi-Genset Paralleling by Bus Coupling





Optional for MV/HV Generator

- ➡ VCB Panel with Vacuum Breaker
- ➡ Bus PT Panel
- ➡ Earth Ground Panel
- ➡ Grid Incoming Panel
- ➡ Bus Couple Panel . Output Feeder
- ➡ MCC Transformer . 110V DC Panel
- ➡ Integrated Relay Protection . Differential Protection
- ➡ DCS System

HONNY POWER

Honny Googol High Voltage Series 50Hz,1500rpm 500kW-2400kW



Genset Model	Prime Power (kW/kVA)	Standy Power (kW/kVA)	Fuel Consumption (l/h)	Diesel Engine Model	Voltage Level	Dimension Size L x W x H (mm)	Weight (kg)
HGM688HV11	500/625	550/687.5	137	PTAA1340G1	6.3/6.610/10.5/11kV	4000x1400x1900	5200
HGM825HV11	600/750	660/825	162	PTAA1340G5	6.3/6.610/10.5/11kV	5000x1780x2100	5800
HGM1000HV11	720/900	800/1000	191	PTAA1780G5	6.3/6.610/10.5/11kV	5000x1780x2100	6500
HGM1100HV11	800/1000	880/1100	205	PTAA1780G7	6.3/6.610/10.5/11kV	5200x2190x2400	8800
HGM1250HV11	900/1125	1000/1250	224	QTA2160G5	6.3/6.610/10.5/11kV	5200x2190x2400	9500
HGM1375HV11	1000/1250	1100/1375	249	PTAA2230G3	6.3/6.610/10.5/11kV	5800x2190x2600	11000
HGM1650HV11	1200/1500	1320/1650	296	QTA3240G5	6.3/6.610/10.5/11kV	5800x2190x2600	12000
HGM1925HV11	1400/1750	1540/1925	332	QTA3240G7	6.3/6.610/10.5/11kV	6000x2190x2600	12000
HGM2063HV11	1500/1875	1650/2063	371	QTA3240G9	6.3/6.610/10.5/11kV	6000x2190x2600	13500
HGM2200HV11	1600/2000	1760/2200	379	QTA4320G3	6.3/6.610/10.5/11kV	6500x2600x2950	15500
HGM2500HV11	1800/2250	2000/2500	421	QTA4320G5	6.3/6.610/10.5/11kV	7000x2600x3150	16500
HGM2750HV11	2000/2500	2200/2750	495	QTA4320G7	6.3/6.610/10.5/11kV	7000x2600x3150	19500
HGM2752HV11	2000/2500	2200/2750	496	QTA5400G1	6.3/6.610/10.5/11kV	8300x2600x3550	19500
HGM3025HV11	2200/2750	2420/3025	547	QTA5400G3	6.3/6.610/10.5/11kV	8300x2600x3550	20500
HGM3300HV11	2400/3000	2640/3300	570	QTA5400G5	6.3/6.610/10.5/11kV	8300x2600x3550	22500

NOTE: 1. Voltage can be designed by customer for 3kV, 6kV, 10kV system and adjustable.
2. Rating Frequency 50Hz, 1500RPM, P.F. 0.8.
3. Environment Condition: 1000 meter altitude, 40°C temperature.
4. All above parameters are only for reference. If any change, no notify separately.

HONNY POWER

Honny Googol Middle speed Series 60Hz,1200rpm 1250kVA-2500kVA

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GOOGOL POWER



Genset Model	Prime Power (kW/kVA)	Standy Power (kW/kVA)	Fuel Consumption (g/kWh)	Diesel Engine Model	Bore x Stroke (mm)	Qua. Of Cylinder	Dimension Size L x W x H (mm)	Weight (kg)	Noise (dBA)
HGM1375SG/6	1000/1250	1100/1375	195	QTA3240SG2	170x195	12V	5700x2220x2800	10800	108
HGM1600SG/6	1120/1400	1280/1600	195	QTA3240SG4	170x195	12V	5700x2220x2800	11500	108
HGM2063SG/6	1500/1875	1650/2063	195	QTA4320SG2	170x195	16V	6200x2190x2900	15000	108
HGM2200SG/6	1600/2000	1760/2200	195	QTA4320SG4	170x195	16V	6200x2190x2900	16000	108
HGM2500SG/6	1800/2250	2000/2500	195	QTA5400SG2	170x195	20V	8000x2600x3500	20000	108
HGM2750SG/6	2000/2500	2200/2750	195	QTA5400SG4	170x195	20V	8000x2600x3500	20000	108

NOTE: 1.Rating Frequency 60Hz, 1200RPM, P.F. 0.8, Voltage,440/254V, 480/277V.
2. Environment Condition: 1000 meter altitude, 40°C temperature.
3. Suitable for continuous operation on power plant

Natural Gas & Biogas Generator

Honny Googol Gas Series 50Hz,1500rpm : 20kw-200Kw

HONNY POWER

GOOGOL POWER

Genset Model		HGGM25	HGGM63	HGGM100	HGGM150	HGGM200
Engine Model		**R240G1**	**R360G1**	**R590G1**	**RTA590G1**	RTA700G1
Rating Speed	rpm	1500	1500	1500	1500	1500
Frequency	Hz	50	50	50	50	50
Generator Output (PRP)	kW	20	50	80	120	160
Power Factor		0.8	0.8	0.8	0.8	0.8
Gas Engine Parameter						
Engine Output (PRP)	kW	27	65	96	150	200
Air Ratio	λ	1.45	1.50	1.60	1.60	1.60
Configuration		4 In line	6 In line	6 In line	6 In line	6 In line
Displacement	l	3.9	5.9	9.7	9.7	11.6
Bore	mm	102	102	126	126	126
Stroke	mm	120	120	130	130	155
Compression Ratio		12:1	12:1	11.5:1	11.5:1	11.5:1
Piston Speed	m/s	6	6	6.5	6.5	7.8
Number of Flywheel Teeth		159	159	139	139	139
Flywheel House Size		SAE3-11.5	SAE3-11.5	SAE1-14	SAE1-14	SAE1-14
System Parameter						
Oil Capacity	l	10.9	14	18	18	20
Max. Allowed Oil Temperature	°C	120	120	110	110	110
Oil Pressure Warning	kPa	160	160	200	200	200
Oil Pressure Shutdown	kPa	80	80	160	160	160
Coolant Capacity for Engine	l	7.2	9.9	40	40	50
Max. Coolant Temperature	°C	103	103	100	100	100
Flow of Coolant pump (JW)	m³/h	7.9	10	14	14	20
Air Cooling Flow	m³/min	120	360	400	420	440
Max. Exhaust Temperature	°C	550	550	550	550	550
Exhaust Flow	kg/h	350	500	600	660	720
Exhaust Flange Diameter	mm	80	80	100	100	125
Charging Alternator Capacity	A	40	40	35	35	35
Starting Voltage	V	24	24	24	24	24
Thermal Balance						
ELectrical Efficiency	%	30	31.5	32.0	32.5	32.5
Mechanical Efficiency	%	34.5	36.5	35.1	35.4	35.3
Thermal Efficiency	%	38.0	38.0	39.0	39.0	40.0
Total Efficiency	%	68.0	69.5	71.0	71.5	72.5
Gas Consumption	MJ/kWh	12.00	11.43	11.25	11.08	11.08
Generator Parameter-Marathon						
Generator Model		GM-32-4	MP-58-4	MP-104-4	MP-140-4A	MP-180-4A
Generator Prime Output	kW	32	58	104	140	160
Generator Efficiency @ 0.8PF		87.0%	86.4%	91.1%	91.7%	92.1%
Genset Dimension						
Genset Size- L * W *H	mm	2000*1000*1200	2400*1100*1500	2800*1100*1500	2800*1100*1500	3100*1200*1650
Genset Weight	kg	800	2000	2400	2500	2600

Honny Googol Gas Series 50Hz,1500rpm
200kw-500Kw

HONNY POWER

GOOGOL POWER

Genset Model		HGGM250	HGGM315	HGGM350	HGGM400	HGGM500	HGGM565	HGGM625
Engine Model		**RTA780G1**	**RTA780G3**	**RTA890G1**	**RTA1120G1**	**RTA1340G1**	**RTA1340G3**	**RTA1780G1**
Rating Speed	rpm	1500	1500	1500	1500	1500	1500	1500
Frequency	Hz	50	50	50	50	50	50	50
Generator Output (COP)	kW	200	252	280	320	400	452	500
Power Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Gas Engine Parameter								
Configuration		6 In line	6 In line	8 Vee	10 Vee	12 Vee	12 Vee	16 Vee
Displacement	l	12.8	12.8	14.6	18.3	21.9	21.9	29.2
Bore	mm	128	128	128	128	128	128	128
Stroke	mm	166	166	142	142	142	142	142
Compression Ratio		11:1	11:1	12:1	12:1	12:1	12:1	12:1
Piston Speed	m/s	8.3	8.3	7.1	7.1	7.1	7.1	7.1
Number of Flywheel Teeth		160	160	160	160	160	160	160
Flywheel House Size		SAE1-14	SAE1-14	SAE1-14	SAE1-14	SAE1-14	SAE1-14	SAE0-18
System Parameter								
Oil Capacity	l	28	28	36	36	48	48	70
Max. Oil Temperature	°C	110	110	110	110	110	110	110
Oil Pressure Shutdown	kPa	160	160	160	160	160	160	160
Engine Coolant Capacity	l	18	18	36	42	44	44	60
Max. Coolant Shutdown Temp.	°C	95	95	95	95	95	95	95
Max. Intercooler Outlet Temp.	°C	50	50	50	50	50	50	50
Flow of Coolant pump (JW)	m³/h	20	20	42	42	42	42	50
Flow of Coolant pump (LT)	m³/h	12.5	12.5	12.5	12.5	12.5	12.5	32.5
Max. Exhaust Temperature	°C	500	500	500	500	500	500	500
Exhaust Flow	kg/h	1106	1387	1537	2075	2523	2884	3217
Exhaust Flange Diameter	mm	1*125	1*125	2*125	2*125	2*125	2*125	2*125
Alternator Capacity	A	35	35	35	35	35	35	35
Starting Voltage	V	24	24	24	24	24	24	24
Thermal Balance								
JW Coolant Heat	±8% kW	114	139	163	184	230	256	283
Exhaust Heat up to 120°C	±8% kW	109	132	155	176	220	243	270
ELectrical Efficiency	%	38.5	38.2	36.0	36.5	36.6	37.2	37
Mechanical Efficiency	%	40.5	40.1	37.6	38.1	38	38.5	38.4
Thermal Efficiency	%	45	45	45.2	45.4	45.3	45.2	45.2
Total Efficiency	%	82.5	82.2	81.2	81.9	81.9	82.4	82.2
Generator Parameter								
Generator Model		GP294-4P	GP375-4P	GP400-4P	GP500-4P	GP600-4P	GP688-4P	GP688-4P
Generator Prime Output	kW	235	300	320	400	480	550	550
Generator Efficiency		95.1%	95.4%	95.8%	95.8%	96.4%	96.6%	96.3%
Genset Dimension								
Genset Size- L * W *H	mm	3700*1150*1700	3700*1150*1700	3750*1450*2220	3900*1450*2220	4060*1450*2220	4060*1450*2220	4800*2200*2500
Genset Weight	kg	2550	2700	2900	3600	4100	4300	5500

Honny Googol Gas Series 50Hz,1500rpm
600kw-1452Kw

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GOOGOL POWER

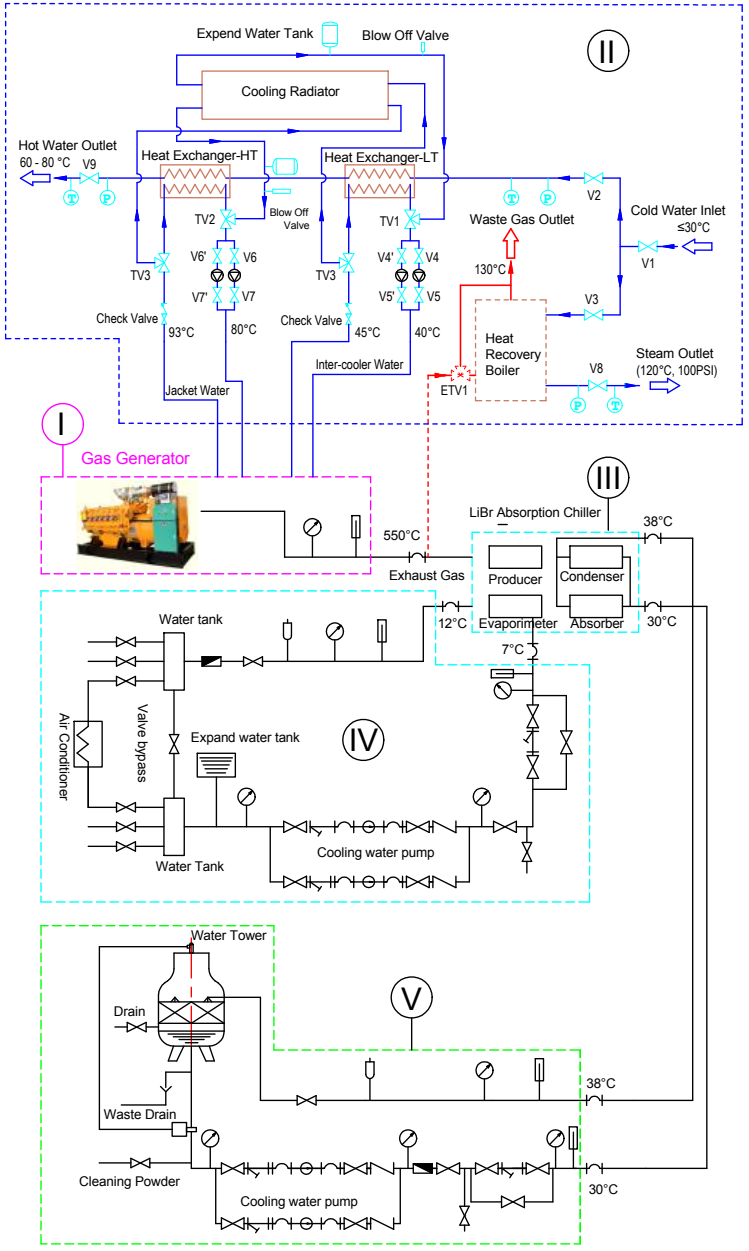
Genset Model		HGGM750	HGGM900	HGGM1280	HGGM1350	HGGM1600	HGGM1815
Engine Model		**JTA2160G1**	**JTA2160G3**	**JTA3240G1**	**JTA3240G3**	**JTA4320G1**	**JTA4320G3**
Rating Speed	rpm	1500	1500	1500	1500	1500	1500
Frequency	Hz	50	50	50	50	50	50
Generator Output (COP)	kW	600	720	1024	1080	1280	1452
Power Factor		1.0	1.0	1.0	1.0	1.0	1.0
Gas Engine Parameter							
Air Ratio	λ	1.6	1.6	1.6	1.6	1.6	1.6
Configuration		8 Vee	8 Vee	12 Vee	12 Vee	16 Vee	16 Vee
Displacement	l	35.4	35.4	53.1	53.1	70.8	70.8
Bore	mm	170	170	170	170	170	170
Stroke	mm	195	195	195	195	195	195
Compression Ratio		12:1	12:1	12:1	12:1	12:1	12:1
Piston Speed	m/s	9.75	9.75	9.75	9.75	9.75	9.75
Number of Flywheel Teeth		218	218	218	218	218	218
Flywheel House Size		SAE00-18	SAE00-18	SAE00-21	SAE00-21	SAE00-21	SAE00-21
System Parameter							
Oil Capacity	l	160	160	180	180	240	240
Max. Allowed Oil Temperature	°C	110	110	110	110	110	110
Oil Pressure Shutdown	kPa	200	200	200	200	200	200
Coolant Capacity for Engine	l	70	70	100	100	140	140
Max. Coolant Temperature	°C	100	100	100	100	100	100
Max. Intercooler Outlet Temp.	°C	40.5	40.5	40.5	40.5	40.5	40.5
Flow of Coolant pump (JW)	m³/h	48	48	56.8	56.8	65	65
Flow of Coolant pump (LT)	m³/h	45	45	58	58	100	100
Max. Exhaust Temperature	°C	500	500	500	500	500	500
Exhaust Flow	kg/h	3264	3896	5733	5733	6704	7615
Exhaust Flange Diameter	mm	1*250	1*250	1*250	1*250	1*250	1*250
Charging Alternator Capacity	A	55	55	55	55	55	55
Starting Voltage	V	24	24	24	24	24	24
Thermal Balance							
JW Coolant Heat	±8% kW	329	392	589	589	699	795
CAC Intercooler Heat	±8% kW	53	63	94	94	109	126
Exhaust Heat up to 120°C	±8% kW	318	378	568	568	675	766
ELectrical Efficiency	%	38.1	38.2	39.5	39.5	39	39.5
Mechanical Efficiency	%	39.5	39.6	40.6	40.6	40.1	40.6
Thermal Efficiency	%	45	45	45	45	45	45
Total Efficiency	%	83.1	83.2	84.5	84.5	84	84.5
Generator Parameter							
Generator Model		GP913-4P	GP1025-4P	GP1563-4P	GP1688-4P	GP1900-4P	GP2063-4P
Generator Prime Output	kW	730	820	1250	1350	1520	1650
Generator Efficiency		96.5%	96.5%	97.4%	96.8%	97.2%	97.3%
Genset Dimension							
Genset Size- L * W *H	cm	540*220*250	540*220*250	420*160*240	420*160*240	480*160*240	500*160*240
Horizontal Radiator- L * W *H	mm	——	——	550*220*2400	550*220*240	550*220*240	550*220*240
Genset Weight	kg	7350	7650	9200	9200	11200	12000

HONNY POWER

Standard Supply Scope for Gas generators:

- Googol Gas engine with alternator, 400V, 1500rpm, 50Hz
- Ignition System: Ignition controller, Ignition coil, Spark plug,
- High pressure wires, Sensor
- Gas Train: Ball Valve, Gas filter, Gas Regulator, Gas Control Valve
- Air/Gas Mix System: Air/gas mixer, Controller, Pressure sensor, NOx sensor .
- Governor System: Governor controller, Throttle, Sensor
- NOx Emission @ 100% load ≤500mg/Nm3

CCHP-Combined Cold & Heat Power Plant
I- Gas/Biogas Generator
II- Water Heat Exchanger
III- Libr Absorption Chiller
IV- Water Chiller Unit
V- Cooling Tower System



Dual Fuel Generator

Honny Googol Dual Fuel Series
50Hz,1500rpm 800kW-200kW

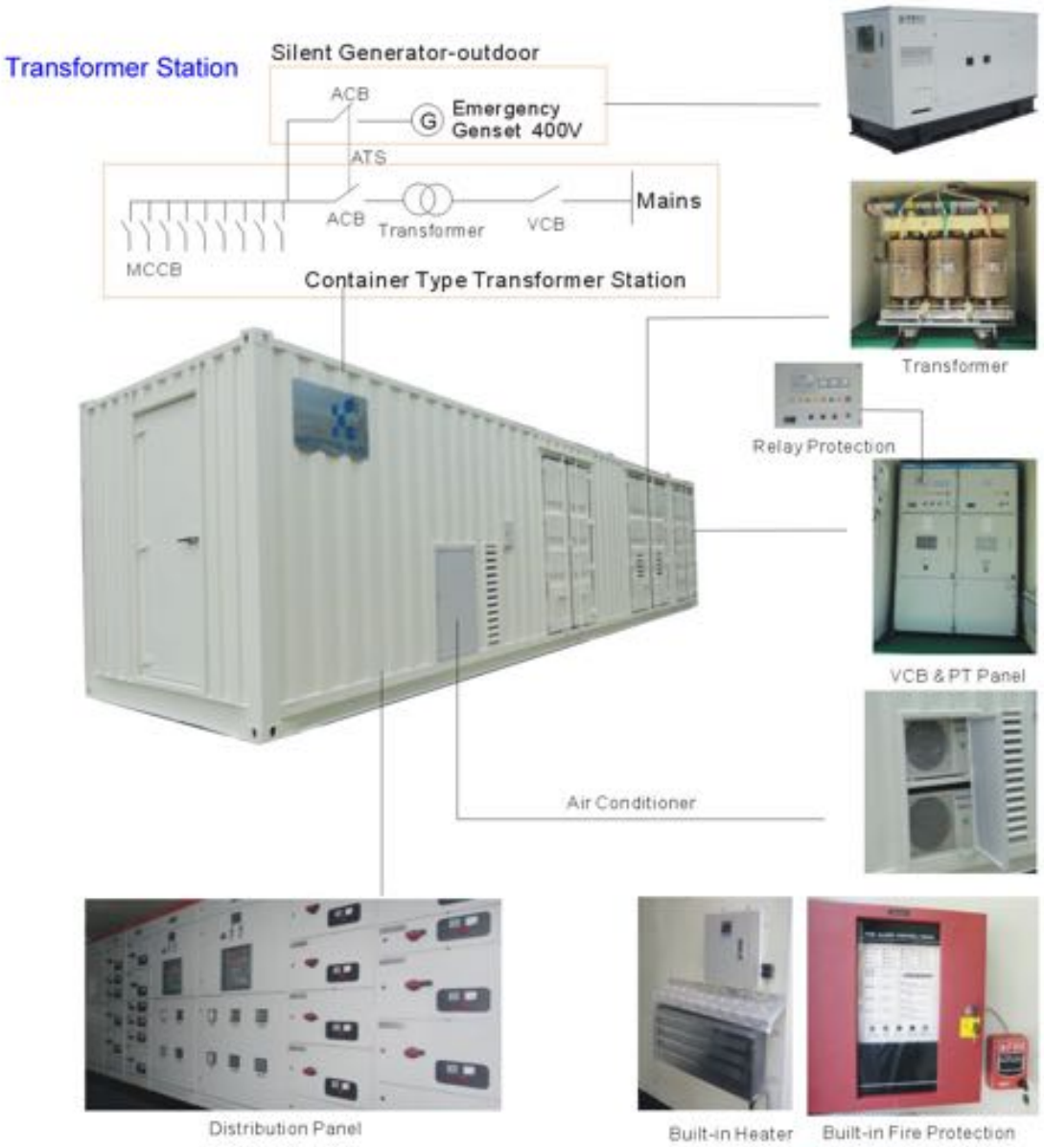
HONNY POWER

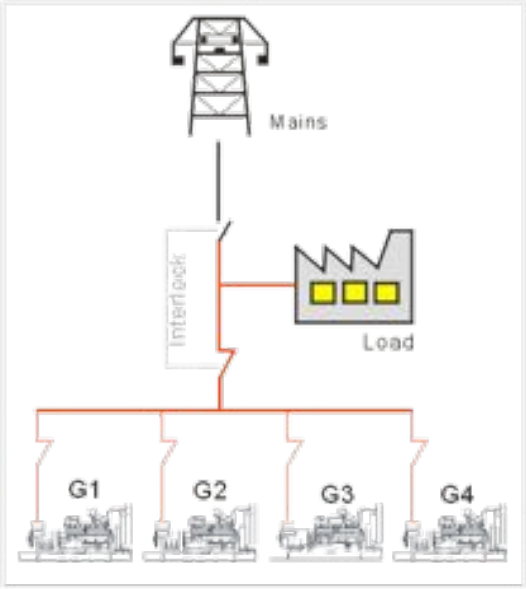
GOOGOL POWER

Genset Model		HDGM1100	HDGM1375	HDGM1650	HDGM2200	HDGM2750
Rating Speed	rpm	1500	1500	1500	1500	1500
Frequency	Hz	50	50	50	50	50
Generator Continuous Output (COP)	kW	720	900	1100	1500	1800
Generator Prime Output (PRP)	kW	800	1000	1200	1600	2000
Generator Standby Output (LTP)	kW	880	1100	1320	1760	2200
Power Factor		0.8	0.8	0.8	0.8	0.8
Gas Engine Parameter						
Engine Model		**QTA2160BG1**	**QTA3240BG1**	**QTA3240BG3**	**QTA4320BG1**	**QTA5400BG1**
Engine Continuous Output (COP)	kW	800	964	1178	1637	1865
Engine Prime Output (PRP)	kW	877	1088	1309	1740	2166
Engine Standby Output (LTP)	kW	961	1193	1435	1908	2374
Configuration		8 Vee	12 Vee	12 Vee	16 Vee	20 Vee
Displacement	l	35.4	53.1	53.1	70.8	88.5
Bore	mm	170	170	170	170	170
Stroke	mm	195	195	195	195	195
Compression Ratio		13.5:1	13.5:1	13.5:1	13.5:1	13.5:1
Piston Speed	m/s	9.75	9.75	9.75	9.75	9.75
Number of Flywheel Teeth		218	218	218	218	218
Flywheel House Size		SAE00-18	SAE00-21	SAE00-21	SAE00-21	SAE00-21
System Parameter						
Oil Capacity	l	160	180	180	240	300
Max. Allowed Oil Temperature	°C	110	110	110	110	110
Oil Pressure Warning	kPa	300	300	300	300	300
Oil Pressure Shutdown	kPa	200	200	200	200	200
Coolant Capacity for Engine	l	70	100	100	140	200
Max. Coolant Warning Temperature	°C	93	93	93	93	93
Max. Coolant Shutdown Temperature	°C	97	97	97	97	97
Flow of Coolant pump	m³/h	48/45	48/45	48/45	80/75	80/75
Max. Exhaust Temperature	°C	545	520	575	530	510
Exhaust Flow	m³/min	225	269	323	481	560
Exhaust Flange Diameter	mm	250	2*250	2*250	2*250	2*250
Charging Alternator Capacity	A	55	55	55	55	55
Starting Voltage	V	24	24	24	24	24
Fuel & Gas Consumption						
Fuel Consumption at 75% Load	l/h	46	57	69	91	107
Gas Consumption at 75% Load	m³/h	122	152	184	246	286
Fuel Consumption at 100% Load	l/h	61	76	92	122	143
Gas Consumption at 100% Load	m³/h	163	203	245	328	382
Genset Dimension						
Length x Width x Height	mm	4600x2190x2300	5200x2190x2580	5200x2190x2580	5600x2190x2800	6500x2800x3350
Genset Weight	kg	7650	10500	11500	13500	16500

Transformer substation

Power & Transformer Station will include city supply incoming panel, Step-up transformer, LV distribution, Emergency generator. The generator will be silent type for outdoor using, and all city incoming panel, transformer, and LV distribution system will be installed into one container with air conditioner and heater, fire protection, Light and acoustic alarm system.





Parallel System:

Powerful function, full electrical protecting system ensuring the safety for the generator sets.
Auto sharing the load system
Auto synchronization system

Perfect electric unit, meter, indicator, and fault alarm system
Perfect operating control system
Communication system







ATS- Auto Transfer Switch

For emergency power usage in building, Auto transfer switch (ATS) is essential. ATS can automatic transfer load from Mains power supplying to Emergency power.
In normal, when the Main power supplying failure or voltage drop below 80% of normal voltage, ATS will auto start Emergency generator set after a preset time of 0-10 sec (adjustable according to the users). Once generator reach at rated speed, the ATS will transfer the load to emergency generator sets Automatically without operator operation.

Standard Controller-AMF



LCD Display Measure

Mains Volts L1-N, L2-N, L3-N
Mains Volts L1-L2, L2-L3, L3-L1
Mains Frequency Hz
Generator Volts L1-N, L2-N, L3-N
Generator Volts L1-L2, L2-L3, L3-L1
Generator Amps L1, L2, L3
Generator Frequency Hz
Generator KVA Total
Generator KW Total
Power Factor PF
Engine Speed RPM
Engine Oil Pressure
Engine Temperature
Plant Battery Volts
Engine Running Hours

Operation Mode

LCD display for measuring parameter, Operating keys and running status LED indicate. The module have STOP/RESET, MAN, AUTO, TEST operating modes.

LED Indicating

Charge Fail
Fail to Start
Low Oil Pressure
High Temperature
Over Speed
Emergency Stop

Auto Running Mode
Man Running Mode
Test Running Mode
Stop/Fail to Stop
Start & Running
Output
Mute

Multiple Alarm

Charge Failure
High Voltage Alarm/ Stop
Low Voltage Alarm/Stop
Over Current Alarm/ Stop
Fail to Start

Low Oil Pressure Alarm/Stop
High Temperature Alarm/ Stop
Over Speed Alarm/Stop
Less Speed Alarm/Stop
Emergency Stop

Auto Sync & Parallel Controller



The module is equipped with synchronize and load sharing capacities, to include auto sync control, volts, frequency matching with built in sync scope and closing onto dead bus facility included. Direct and flexible outputs from the module are provided to allow connection to the most commonly used speed governors and auto voltage regulators (AVR).
Advanced multi-set communication port allowing up to 16 units generators to KW and Kvar load share with Dead Bus control. Use CANBUS communication protocol

Operation Modes

Automatic mains failure/ATS
Island operation
Fixed power/base load
Peak shaving
Load takeover
Mains power export
Multiple gen-set load sharing (128)

Applications

Control of up to 16 gen-sets
Control of up to 8 bus tie breakers
Load-dependent start/stop operation
Priority selection of gen-sets
Ground relay control
Plant division into sections for individual functionality
Multiple gen-sets, load management
Multi-master system

HONNY POWER®

HONNY POWER®

Gas Generator









HONNY POWER

Marine Generator



Pumping Set



Mobile Generator



Container Generator



Silent Diesel Generator



Certificates

CE certificate for Gas genset



CE certificate for Diesel genset



ISO14001



ISO9001



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