

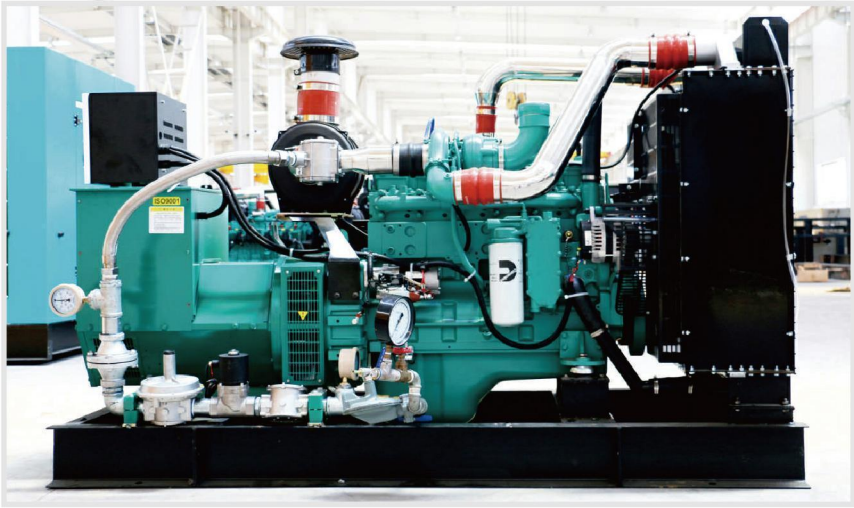
珀金斯英国产 Perkins UK						
机组型号 Unit Model	机组输出 Unit output		产品型号 Product Model	油耗(L/H) Fuel	参考重量(kg) Weight	参考机组尺寸(m) Size
	主用功率(kW) Prime	备用功率(kW) Standby				
MG-PK53	50HZ:48 60HZ:55	50HZ:53 60HZ:60	1103A-33TG2(双速机)	11	967	1.93*1.12*1.36
MG-PK176	50HZ:160 60HZ:180	50HZ:176 60HZ:200	1206A-E70TTAG1(双速机)	35	1602	2.5*1.12*1.47
MG-PK200	50HZ:184 60HZ:180	50HZ:200 60HZ:200	1206A-E70TTAG2(双速机)	39	1895	2.87*0.9*1.69
MG-PK220	50HZ:200 60HZ:180	50HZ:220 60HZ:200	1206A-E70TTAG3(双速机)	44	1895	2.87*0.9*1.69
MG-PK656	50HZ:597 60HZ:600	50HZ:656 60HZ:660	4006-23TAG2A(双速机)	132	6359	4.28*1.19*2.28
MG-PK718	50HZ:641 60HZ:679	50HZ:718 60HZ:755	4006-23TAG3A(双速机)	140	6359	4.28*1.19*2.28
MG-PK900	50HZ:818 60HZ:801	50HZ:900 60HZ:883	4008TAG2(双速机)	176	6920	4.94*2.04*2.45
MG-PK1100	50HZ:1000 60HZ:1000	50HZ:1100 60HZ:1100	4012-46TWG2A(双速机)	220	9159	5.1*2.64*2.8
MG-PK1320	50HZ:1200 60HZ:1200	50HZ:1320 60HZ:1320	4012-46TAG2A(双速机)	264	10890	5.22*2.21*2.49
MG-PK1500	50HZ:1350 60HZ:1350	50HZ:1500 60HZ:1500	4012-46TAG3A(双速机)	301	10890	5.22*2.21*2.49

珀金斯美国产 Perkins American						
机组型号 Unit Model	机组输出 Unit output		产品型号 Product Model	油耗(L/H) Fuel	参考重量(kg) Weight	参考机组尺寸(m) Size
	主用功率(kW) Prime	备用功率(kW) Standby				
MG-PK226	50HZ:206 60HZ:232	50HZ:226 60HZ:256	1506A-E88TAG3(双速机)	44	1895	2.87*0.9*1.69
MG-PK270	50HZ:246 60HZ:282	50HZ:270 60HZ:312	1506A-E88TAG5(双速机)	52	2100	3*0.9*1.69
MG-PK271	50HZ:245 60HZ:285	50HZ:271 60HZ:315	1706A-E93TAG1(双速机)	52	2100	3*0.9*1.69
MG-PK306	50HZ:278 60HZ:285	50HZ:306 60HZ:315	1706A-E93TAG2(双速机)	61	2775	3.4*1.13*2.06
MG-PK320	50HZ:280 60HZ:320	50HZ:320 60HZ:350	2206C-E13TAG2(双速机)	61	2775	3.4*1.13*2.06
MG-PK360	50HZ:320 60HZ:320	50HZ:360 60HZ:350	2206C-E13TAG3(双速机)	70	2925	3.4*1.13*2.06
MG-PK400	50HZ:364 60HZ:400	50HZ:400 60HZ:450	2506C-E15TAG1(双速机)	70	2925	3.4*1.13*2.06
MG-PK440	50HZ:400 60HZ:400	50HZ:440 60HZ:450	2506C-E15TAG2(双速机)	88	3570	3.76*1.13*2.13
MG-PK520	50HZ:473 60HZ:500	50HZ:520 60HZ:550	2806C-E18TAG1A(双速机)	105	3957	3.76*1.54*2.13
MG-PK560	50HZ:520 60HZ:500	50HZ:560 60HZ:550	2806A-E18TAG2(双速机)	114	4075	3.76*1.54*2.13

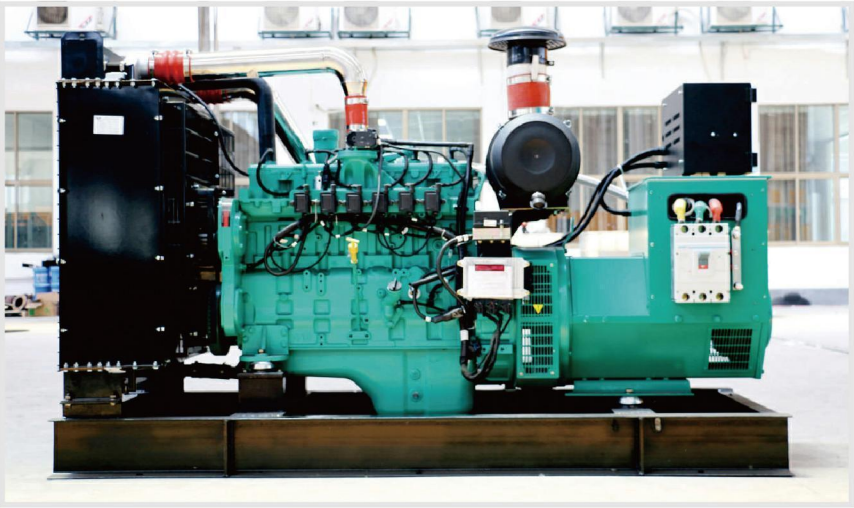
燃气发电机组 Gas Generator Set

We can provide 30KW~800KW gas-fired generator sets; in addition to natural gas, biogas, landfill gas, and coalbed methane can also be used as fuel. Sewage biogas and combustible industrial waste gas are widely used in commercial, industrial and public construction, and can be used for power generation, heating and cooling. The patented combustion technology monitoring system can provide efficient, durable and reliable performance; it can also meet the world's most stringent exhaust emission standards.

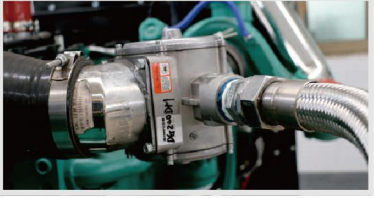
Gas power has a wide range of applications; field gas well drilling power and power supply, oil and gas gathering station natural gas compression power, urban natural gas filling station power, urban industrial and mining enterprise power supply, combined heat and power, and power peak load regulation.



燃气机组正面图 Gas unit front view



燃气机组背面图 Gas unit rear view



燃气机组细节图
Detailed image

燃气发电机组优势 Advantages of gas generator sets

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清洁
Clean

天然气被认为是地球上最干净的石化能源
Natural gas is considered the cleanest petrochemical energy on earth
- 

高效
Efficient

天然气联合循环发电, 热能利用率高达85%, 高于原有和没燃料发电的热能综合利用
Natural gas combined cycle power generation, thermal energy utilization rate up to 85%, higher than the original and fuel-free power generation thermal energy comprehensive utilization
- 

安全
Safe,

着火温度高, 比野花石油气着火温度高
High ignition temperature, higher than the ignition temperature of wild flower petroleum gas
- 

经济
Economical

价格比较稳定, 使用天然气的装置投资省、建设周期短、占地少
The price is relatively stable, the use of natural gas equipment investment is low, the construction period is short, and the land occupation is small
- 

便捷
Convenient

管道供气, 无需仓储、搬运、野外气井钻深动力及供电
Pipeline gas supply, no need for storage, transportation, field gas well drilling power and power supply
- 

可靠
Reliable

资源丰富, 液化、气化、运输技术成熟
Rich resources, mature liquefaction, gasification, transportation technology

燃气发电机组 Gas Generator Set

机组型号 Unit Model	机组输出 Unit output		产品型号 Product Model	油耗(L/H) Fuel	参考重量(kg) Weight	参考机组尺寸(m) Size
	主用功率(kW) Prime	备用功率(kW) Standby				
M20RY40M	36	40	YC4D60N-D30	7.92	1000	1.85*0.65*1.4
M20RY60M	55	60	YC4D90N-D30	12.1	1300	2.4*0.9*1.3
M20RY75M	70	75	YC4G115N-D30	15.4	1320	1.6*0.7*1.5
M20RY90M	84	90	YC4G135N-D30	18.48	1400	1.8*0.76*1.5
M20RY100M	90	100	YC6J155N-D30	19.8	1340	2.5*0.9*1.5
M20RY120M	110	120	YC6G180N-D30	24.2	1600	2.5*1*1.6
M20RY140M	120	140	YC6G205N-D30	26.4	1600	2.5*1*1.6
M20RY180M	160	180	YC6MK270N-D32	35.2	2500	3*1.2*1.4
M20RY200M	180	200	YC6K300N-D30	39.6	2140	3.1*1.1*1.7
M20RY210M	190	210	YC6MK315N-D32	41.8	2140	3.1*1.1*1.7
M20RY235M	210	235	YC6K350N-D30	46.2	2500	3.1*1.1*1.7
M20RY265M	240	265	YC6K400N-D30	52.8	2500	3.1*1.1*1.7
M20RY285M	260	285	YC6K420N-D30	57.2	2600	3.4*1.1*2
M20RY300M	280	300	YC6T450N-D30	61.6	2800	3.8*1.1*2
M20RY350M	320	350	YC6TD525N-D32	70.4	3300	3.9*1.1*1.9
M20RY400M	360	400	YC6TD600N-D32	79.2	3300	3.9*1.1*1.9
M20RY440M	400	440	YC6C660N-D30	88	4200	3.95*1.1*2
M20RY500M	460	500	YC6C750N-D30	101.2	4100	4.05*1.05*2
M20RY560M	500	560	YC6C840N-D30	110	4100	4*1.43*2.05
M20RY650M	600	650	YC6C935N-D30	132	7500	4.7*1.5*2.05
M20RY1020M	1000	1020	YC12VC1520N-D30	220	13350	6.5*2.3*2.6
M20RY1120M	1040	1120	YC12VC1680N-D30	228.8	13350	6.5*2.3*2.6
M20RY1400M	1200	1400	YC12VC2070N-D30	264	13350	6.5*2.3*2.6

甲醇发电机组 Methanol generator set

我司研发的甲醇燃料电站优势显著: 单机组功率在300 - 400kw, 支持模块化组合, 常见组合有2400KW、3600KW、4500KW等, 也可按需进行任意功率组合, 电压范围为380 - 600V, 甲醇耗在420-446gkw.h。热效率高达80%以上, 远超传统发电设备, 氮氧化物排放低, 环保性能卓越。

该电站可24小时持续发电, 能在-30℃至50℃的极端环境温度下稳定工作, 尤其适用于煤矿、钻井平台等偏远无电地区。

凭借突出的环保性、经济性与可持续性, 甲醇发电机组正受到众多行业的青睐, 应用前景十分广阔。

The methanol fuel power station developed by our company has significant advantages: the power of a single unit is 300-400kw, supporting modular combination, common combinations are 2400KW, 3600KW, 4500KW, etc., and any power combination can be made on demand, the voltage range is 380-600V, and the methanol consumption is 420-446gkw.h. The thermal efficiency is as high as more than 80%, far exceeding traditional power generation equipment, low nitrogen oxide emissions, and excellent environmental performance.

The power station can generate electricity continuously for 24 hours and can work stably in extreme ambient temperatures of -30 ℃ to 50 ℃, especially suitable for remote areas without electricity such as coal mines and drilling platforms. With outstanding environmental protection, economy and sustainability, methanol generator sets are favored by many industries and have broad application prospects.



300kW甲醇发电机组配置参数 300kW methanol generator set configuration parameters

机组性能参数 Unit performance parameters		
机组型号 Model	MG330M100	
输出容量 Output capacity(kVA)	375	
输出功率 Output power(kW)	300	
频率 Frequency(Hz)	50	
功率因数 Power factor	0.8(滞后) (hysteresis)	0.7(滞后) (hysteresis)
输出电压 Output voltage(V)	230/400	600
电流 Current(A)	541	412
机组尺寸(长×宽×高) Size L×W×H(mm)	4750×1500×2450	
机组净重 Weight(kg)	5100	
醇耗 Methanol consumption	420 g/kW.h	

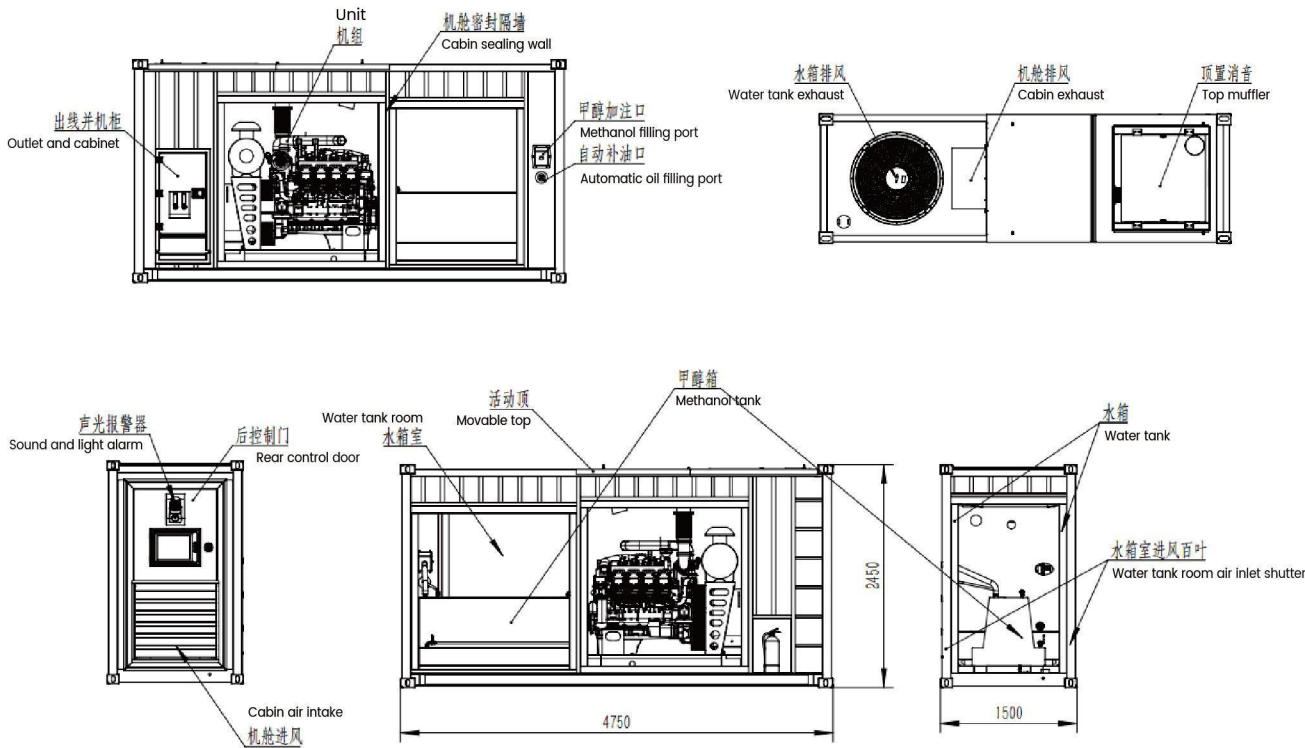
发电机 Dynamo

额定功率 Rated power(kW)	300kW	额定功率 Rated power(kVA)	375kVA
型号 model	JC300-14	励磁方式 Excitation mode	无刷自励式 Brushless self-excited
接线方式 Wiring method	三相四线制 (Y接) Three-phase four-wire system (Y connection)	稳态电压调整率 Steady state voltage regulation	±0.5%
短路电流能力 Short circuit current capability	300% 10s	电压控制方式 Voltage control method	AVR
绝缘等级 Insulation level	H	绕组节距 Winding pitch	2/3
防护等级 Protection level	IP23	冷却方式 Cooling method	自冷式 Self-cooling
绕组材质 Winding material	全铜 All copper	工作制 Work system	连续工作制 Continuous work system

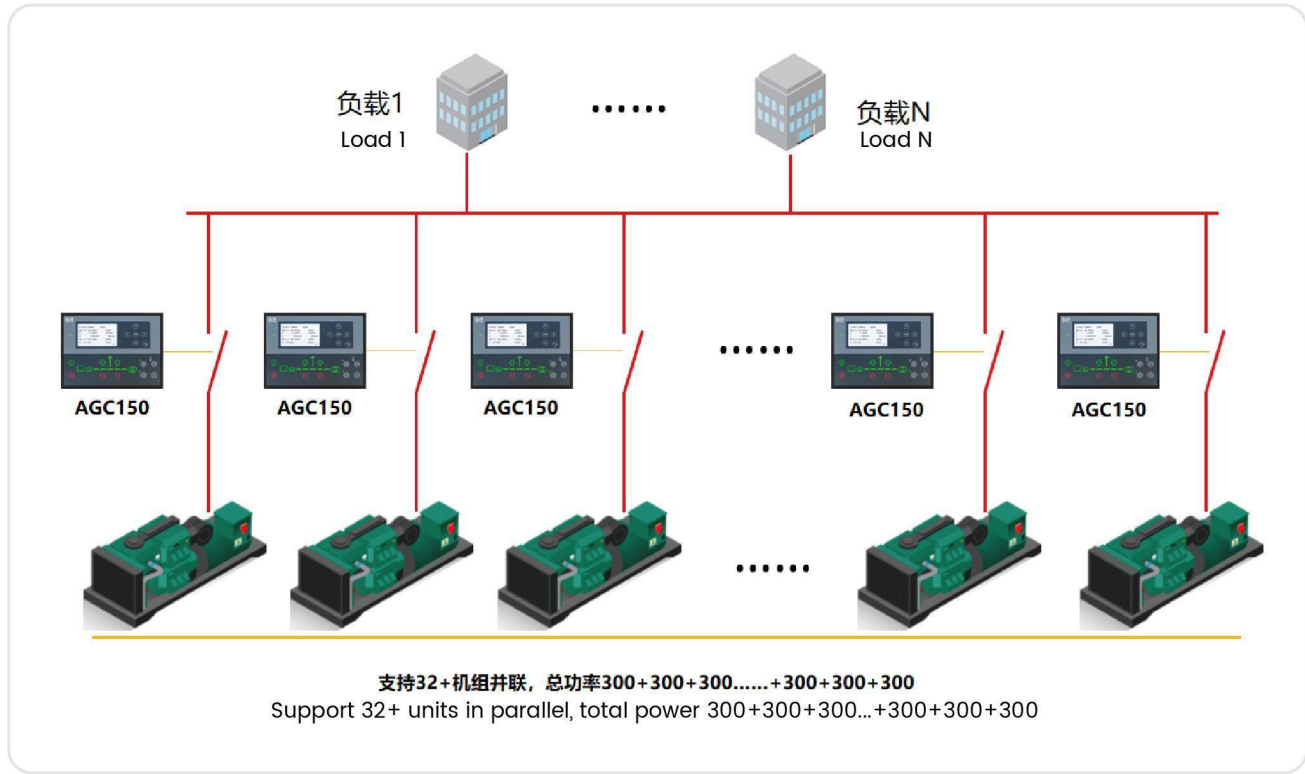
发动机 Dynamo

型号 Model	HC8VI32J	
型式 Type	V型、水冷、四冲程、废气涡轮增压、中冷 V-type, water-cooled, four-stroke, exhaust gas turbocharger, intercooler	
燃烧室型式 Combustion chamber type	浴盆形 Bathtub shape	
燃料 Fuel	M100 甲醇 Methanol (GB/T 42416-2023)	
气缸数 Number of cylinders	8	
缸径/行程 Bore/stroke(mm)	132/145	
压缩比 Compression ratio	11.5:1	
总排量 Total displacement(L)	16	
燃油喷射系统 Fuel injection system	电控、低压共轨、进气道多点喷射 Electronic control, low-pressure common rail, multi-point injection in the intake port	
凸轮轴布置型式 Camshaft arrangement type	中置 Center	
曲轴旋转方向 (飞轮端看) Crankshaft rotation direction (from the flywheel end)	逆时针 Counterclockwise	
发火顺序 Fire order	1-8-4-5-7-3-6-2	
起动方式 Starting mode	电起动 Electric start	
标定功率/转速 Rated power/speed	380kW/1500r/min	400kW/2100r/min
最大扭矩/转速 Maximum torque/speed Methanol consumption rate under nominal conditions	/	2500N.m/1400r/min
标定工况甲醇消耗率	400g/kW.h	433g/kW.h
机油燃油消耗比 Oil fuel consumption ratio(%)	≤ 0.3	
怠速 Idling(r/min)	700 ± 50	
涡前最高排温 Maximum exhaust temperature before turbine(°C)	≤ 660	
长×宽×高 Length×Width×Height(mm)	1265× 920× 1247	
重量 Weight(kg)	1150	
常规起动温度 Normal starting temperature(°C)	>16	
冷起动温度 Cold start temperature(°C)	≤ 16 (利用冷起动加热装置对发动机进行加热) (Use cold start heating device to heat the engine)	

机组外形图 Module form diagram



多机并联应用图 Multi-machine parallel application diagram



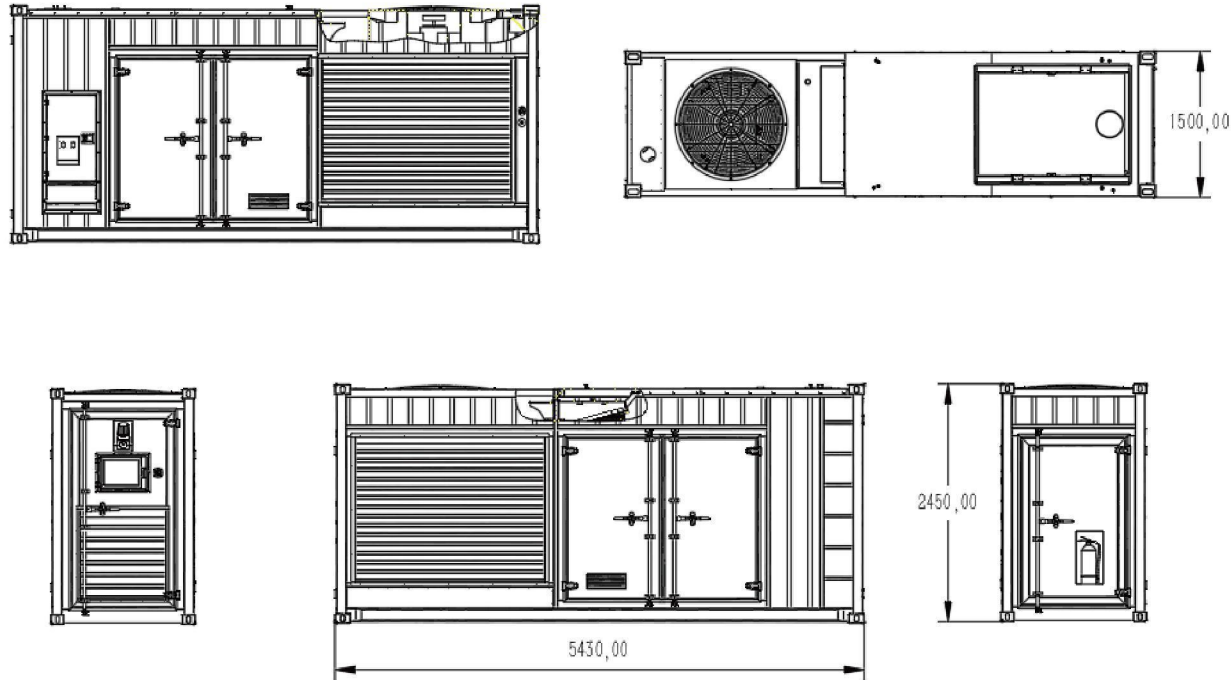
400kW甲醇发电机组配置参数 400kW methanol generator set configuration parameters

机组性能参数 Unit performance parameters		
机组型号 Model	MG400M100	
输出容量 Output capacity(kVA)	500	
输出功率 Output power(kW)	400	
频率 Frequency(Hz)	50	
功率因数 Power factor	0.8(滞后) (hysteresis)	0.7(滞后) (hysteresis)
输出电压 Output voltage(V)	230/400	600
电流 Current(A)	722	550
机组尺寸(长×宽×高) Size L×W×H(mm)	5430×1500×2450	
机组净重 Weight(kg)	6800	
醇耗 Methanol consumption	420 g/kW.h	

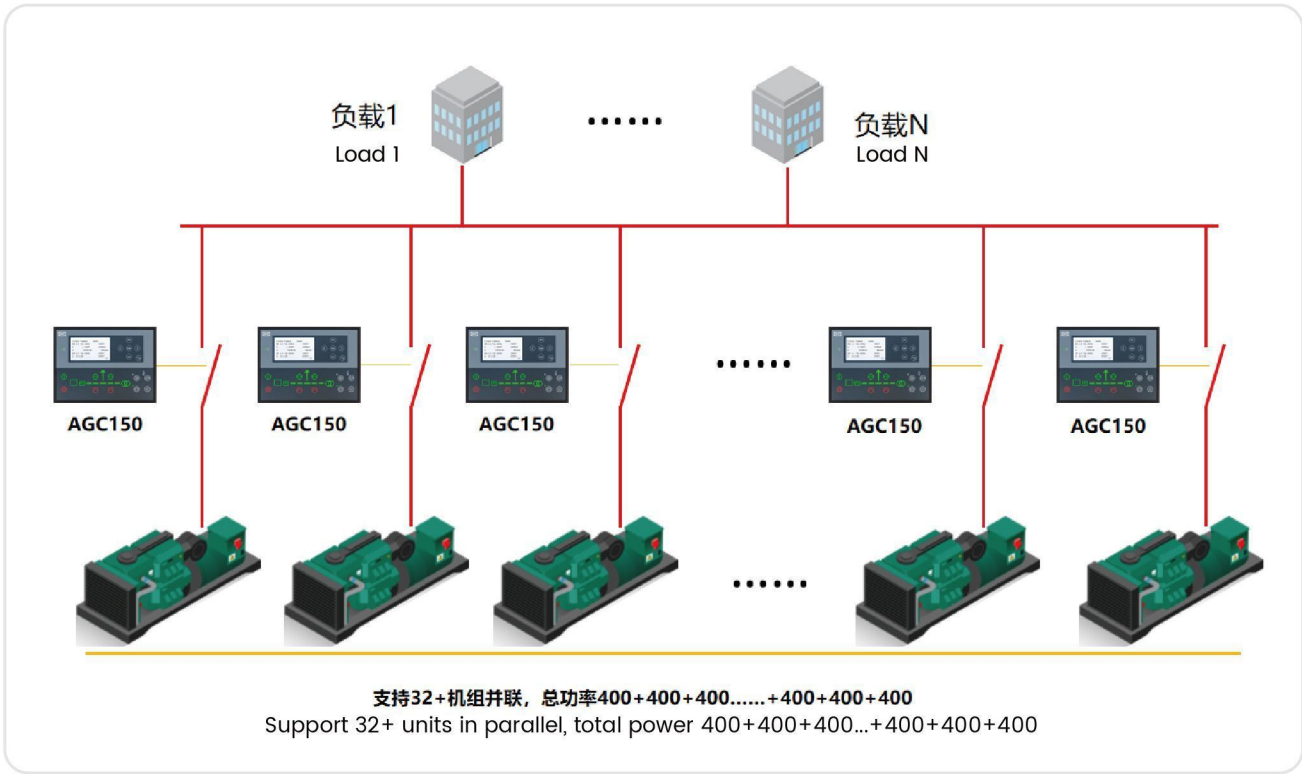
发电机 Dynamo			
额定功率 Rated power(kW)	400kW	额定功率 Rated power(kVA)	500kVA
型号 model	JC300-14	励磁方式 Excitation mode	无刷自励式 Brushless self-excited
接线方式 Wiring method	三相四线制(Y接) Three-phase four-wire system (Y connection)	稳态电压调整率 Steady state voltage regulation	±0.5%
短路电流能力 Short circuit current capability	300% 10s	电压控制方式 Voltage control method	AVR
绝缘等级 Insulation level	H	绕组节距 Winding pitch	2/3
防护等级 Protection level	IP23	冷却方式 Cooling method	自冷式 Self-cooling
绕组材质 Winding material	全铜 All copper	工作制 Work system	连续工作制 Continuous work system

发动机 Dynamo		
型号 Model	HC8VI32J	
型式 Type	V型、水冷、四冲程、废气涡轮增压、中冷 V-type, water-cooled, four-stroke, exhaust gas turbocharger, intercooler	
燃烧室型式 Combustion chamber type	浴盆形 Bathtub shape	
燃料 Fuel	M100 甲醇 Methanol (GB/T 42416-2023)	
气缸数 Number of cylinders	12	
缸径/行程 Bore/stroke(mm)	132/145	
压缩比 Compression ratio	11.5:1	
总排量 Total displacement(L)	24	
燃油喷射系统 Fuel injection system	电控、低压共轨、进气道多点喷射 Electronic control, low-pressure common rail, multi-point injection in the intake port	
凸轮轴布置型式 Camshaft arrangement type	中置 Center	
曲轴旋转方向 (飞轮端看) Crankshaft rotation direction (from the flywheel end)	逆时针 Counterclockwise	
发火顺序 Fire order	1-8-5-10-3-7-6-11-2-9-4-12	
起动方式 Starting mode	电起动 Electric start	
标定功率/转速 Rated power/speed	565kW/1500r/min	600kW/2100r/min
最大扭矩/转速 Maximum torque/speed Methanol consumption rate under nominal conditions	/	3400N.m/1400r/min
标定工况甲醇消耗率	411g/kW.h	427g/kW.h
机油燃油消耗比 Oil fuel consumption ratio(%)	≤ 0.15	
怠速 Idling(r/min)	700 ± 50	
涡前最高排温 Maximum exhaust temperature before turbine(°C)	≤ 635	
长× 宽× 高 Length × Width × Height(mm)	1505× 940× 1352	
重量 Weight(kg)	1600	
常规起动温度 Normal starting temperature(°C)	>16	
冷起动温度 Cold start temperature(°C)	≤ 16 (利用冷起动加热装置对发动机进行加热) (Use cold start heating device to heat the engine)	

机组外形图 Module form diagram



多机并联应用图 Multi-machine parallel application diagram



产品细节 Product details



应用案例 Application cases

玉门钻井分公司钻机甲醇代油服务项目 Yumen Drilling Company Drilling Rig Methanol Oil Service Project

案例介绍: 我公司为玉门钻井分公司钻机甲醇代油服务项目提供8台350KW并机甲醇发电机组, 每分钟可提供40kW电力, 可有效保证一套50钻机日常工作需求, 同等工作条件下比柴油发电机组节省30%的费用, 并且达到绿色环保, 安全排放的效果。

Case introduction: Our company provides 8 350KW parallel methanol generator sets for the drilling rig methanol oil service project of Yumen Drilling Branch. It can provide 40kW of electricity per minute, which can effectively guarantee the daily work needs of a set of 50 drilling rigs. Under the same working conditions, it saves 30% of the cost compared with diesel generator sets, and achieves the effect of green environmental protection and safe emission.

