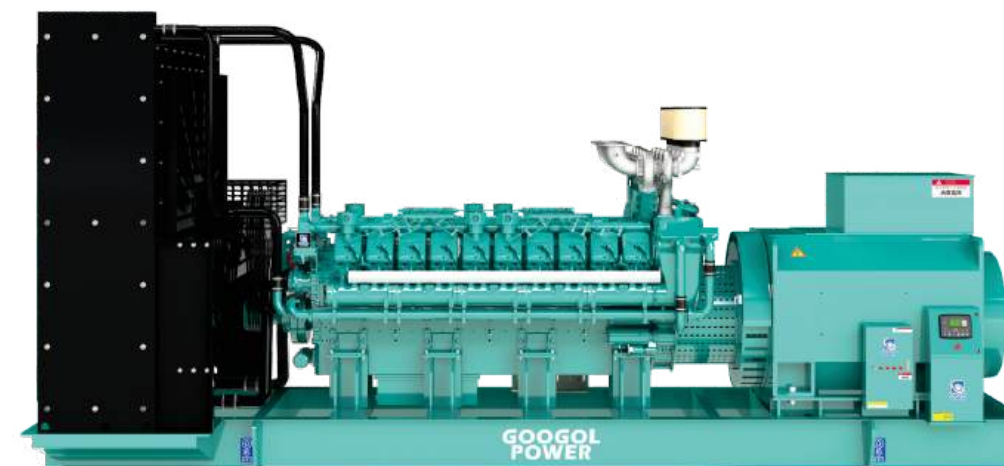




磐谷电力

GOOGOL POWER

400kW-3000kW@1500rpm Diesel Engine Generator Sets



GOOGOL POWER

Over 30 years dedicated to the research, development, manufacturing, and servicing of diesel generator sets.

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Wechat Official Accounts

(With the progress of product technology, product structure and parameters continue to improve without prior notice.
If there is any discrepancy between the sample parameters and the real object, the real object shall prevail)

Version:2024.05



Chongqing Googol Engine-Tech Co.,Ltd.

DIRECTORY

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About Googol Power >>>

The core team of Chongqing Googol Power Technology Co., Ltd. entered the diesel generator set industry as early as 1991. In January 2003, they began the research and development of high-power engines. In 2006, they invested in and established a manufacturing base in Yongchuan, Chongqing.

Googol Power's leading products include diesel engines, gas engines, and gas generator sets. They have conducted profound research and insights into the structural design and power calibration of high-speed, high-power engines worldwide. Using modular design, they offer a product matrix comprising dozens of engines with different power outputs, ranging from 490 to 3600 kW @ 1500 rpm, with varying cylinder numbers (6/8/10/12/14/16/18/20) and different cylinder diameters and strokes (P/Q). Thanks to shared supply chains and lean manufacturing with leading global engine manufacturers, Googol's entire engine range stands out with characteristics such as low liter power, high reliability, low exhaust temperature, low fuel consumption, clean emissions, and low maintenance costs.

Googol Power has pioneered numerous industry firsts. They are the inventors of the world's first V-type 14/16/20-cylinder engine with cylinder diameters of 128/132/135mm and V-type 10/12/14/16/20-cylinder engines with cylinder diameters of 177/180/185mm. As early as 2012, Googol Power independently designed and manufactured China's first V20-cylinder high-speed diesel engine with a cylinder diameter of 170mm, filling a market gap in China in this field. They are the third company globally to develop and manufacture high-speed, high-power engines with V20 cylinders.

Googol power has consistently adhered to technological innovation, continuously introducing highly competitive engine products to the market. They have obtained 14 invention patents, applied for trademark registration in 66 countries worldwide, and have been certified for ISO9001-2015 quality management system, ISO14001-2015 environmental management system, ISO4500-2018 occupational health and safety management system, and intellectual property management system. In 2012, they were recognized as a Chongqing Enterprise Technology Center, became a national high-tech enterprise in 2013, and in 2022, they received honors such as the China Excellent Patent Award, National Intellectual Property Advantage Enterprise, National Specialized, and New "Little Giant" Enterprise, Chongqing Specialized and New Enterprise, Chongqing Outstanding Private Enterprise, Chongqing Top 100 Private Enterprises, and Chongqing Intellectual Property Advantage Enterprise.

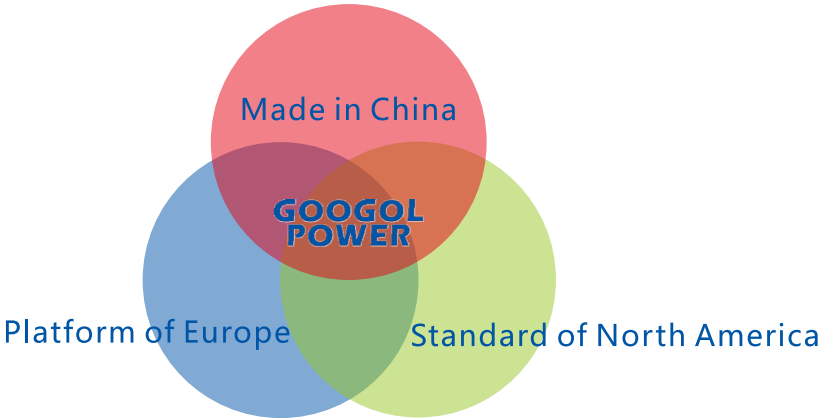
Googol power is one of the few specialized manufacturers globally with the capability to research and manufacture high-speed, high-power diesel and gas engines. They provide reliable power sources to a wide range of users, including advanced manufacturing, semiconductor, infrastructure, communication, data centers, energy and chemicals, healthcare, cultural and educational institutions, and more.



Company Vision:
Technological innovation benefits humanity.

Company Mission:
To Make the World Listen to the China's Voice.

Company Values:
Quality as Solid as a Rock, Humility as Deep as a Valley.



Over 10 Years of Experience in Manufacturing Diesel Engines with Power Ranging from 2000kW to 3600kW Starting from 2012.

Over 20 Years of Experience in Manufacturing Diesel Engines with Power above 300kW Starting from 2002.

Over 30 Years of Experience in Diesel Engines & Generator Sets Field Starting from 1992.



Production Based in Dongguan, China. Starting From 2002



Old Production Based in Chongqing, China. Starting From 2006



R&D Base in Los Angeles, North America. Starting From 2012



New Production Base in Chongqing. Starting From 2021

Performance Analysis of Key Parts of Diesel Engines▶▶▶

缸体 CYLINDER



对比项 Category	替谷发动机 Googol Engine	普通发动机 Ordinary Engine
缸体材料 Material	含镍、铬、钼、铜等贵金属材料，为高强度合金铸铁。 high-intensity alloy cast iron; includes nickel, chromium, molybdenum, copper and etc.	不含镍、铬、钼、铜等贵金属材料，为低强度合金铸铁。 Low-intensity alloy cast iron
机械性能 mechanical behavior	热稳定性良好，抗拉强度高，减少发动机的震动和变形量。 high heat resistance and tensile strength to restrain vibration and deformation of engine	热稳定性差，抗拉强度差，发动机的震动和变形量大。 Low heat resistance and tensile strength, easy to be vibration and deformed

曲轴 CRANKSHAFT



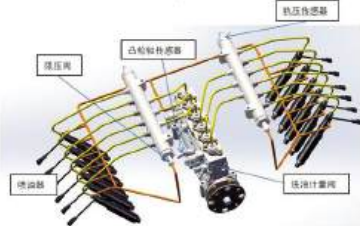
对比项 Category	替谷发动机 Googol Engine	普通发动机 Ordinary Engine
曲轴材料 Material	42CrMoA合金钢 42CrMoA alloy cast iron	球墨铸铁或普通钢 ductile cast iron or ordinary steel
制作工艺 Craft	采用整体模锻造成，并采用圆角及轴颈感应淬火处理。 Forged in integral-forging block, using rounded corners and journal induction hardening treatment	采用球墨铸铁铸造而成或采用分段模具锻造而成。 Using segmented mold casting
机械性能 mechanical behavior	采用整体模锻造成，保留金属内部的自然流线，大幅提高曲轴的强度。 Retained within the metal natural flow lines by using integral-forging block, which increasing the crankshaft strength	球墨铸铁或分段模具锻造的曲轴抗拉强度低，由于分段锻造会产生内应力，降低曲轴的机械性能。 Crankshaft tensile strength is low and intrinsic thermal stress increasing lower the crankshaft mechanical properties
工作寿命 Operating life	工作寿命超过10万小时，而且曲轴磨损后还可以磨削配加大瓦继续使用，不需要更换曲轴，后续的维修成本非常低，曲轴价格相当于整台发动机价格的20%。 Over 100,000 hours, low maintenance cost	球墨铸铁的曲轴工作寿命不超过2万小时，而且曲轴磨损后不能配加大瓦继续使用，必须要更换曲轴，后续的维修成本非常高。 No more than 20,000 hours, high maintenance cost

连杆 CONNECTING ROD



对比项 Category	替谷发动机 Googol Engine	普通发动机 Ordinary Engine
设计 Design	Pv系列的连杆采用目前领先全球的涨断式连杆工艺制造而成。 Cracking Connection Rod	采用传统的制作工艺 Traditional
技术性能 Technical characteristic	其精度比传统的连杆提高十倍以上，其操作连接的结构大幅提升连杆的耐冲击能力，提高连杆和连杆瓦的使用寿命。 Improving the accuracy more than ten times, increasing the resistance to shocks and the operating life expectancy.	精度差，抗冲击能力差，使用寿命短。 Bad accuracy, low resistance to shocks and short operating life expectancy.

燃油系统 FUEL SYSTEM



对比项 Category	替谷发动机 Googol Engine	普通发动机 Ordinary Engine
燃油喷射压力 Fuel injection pressure	喷射压力高达1300kg/cm²以上 Over 1,300kg/cm²	喷射压力只有500-600kg/cm² About 500 to 600kg/cm²
技术性能 Technical characteristic	燃油雾化良好，燃烧充分，比油耗低，发动机的燃油经济性良好。 Good fuel oil atomization, full combustion, low specific fuel consumption, good fuel economy	燃油雾化差，燃烧不充分，比油耗高，发动机的燃油经济性差。 Bad fuel oil atomization, incomplete combustion, high specific fuel consumption, bad fuel economy

涡轮增压器 TURBO CHARGER

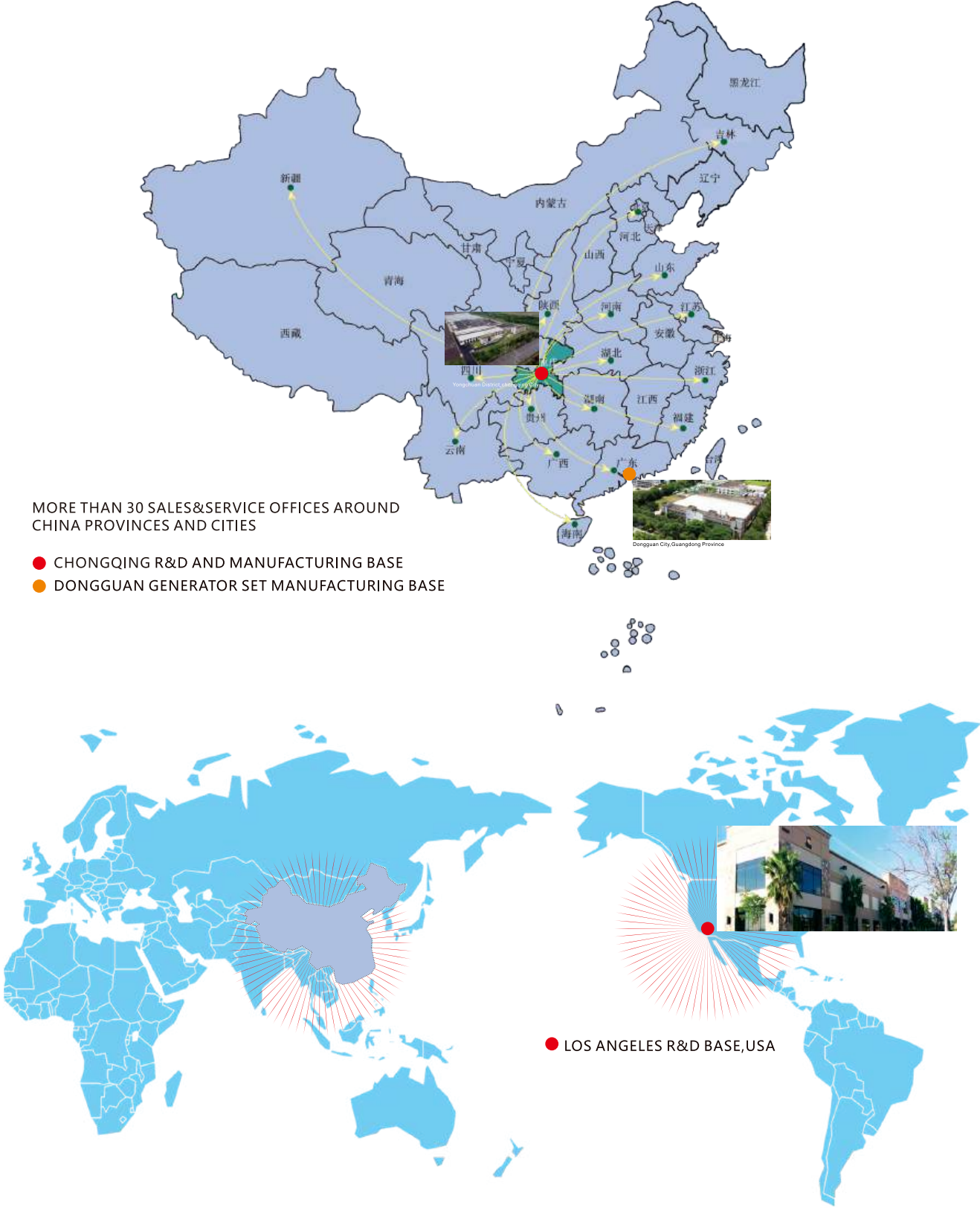


对比项 Category	替谷发动机 Googol Engine	普通发动机 Ordinary Engine
压缩比 Compress Ratio	3.5-4.0	2.0-2.5
技术性能 Technical characteristic	进入气缸的空气量更大，让燃油和空气混合雾化得更好，燃油燃烧得更加彻底，发动机油耗率更低，排放更加环保。 Small quantity of air get into cylinder, incomplete combustion lead to high fuel consumption and high emission of pollution	进入气缸的空气量少，让燃油和空气混合雾化不良，燃油燃烧不彻底，发动机油耗率更高，排放的有害物质更多。 Small quantity of air get into cylinder, incomplete combustion lead to high fuel consumption and high emission of pollution

Global Trust Witnesses >>>

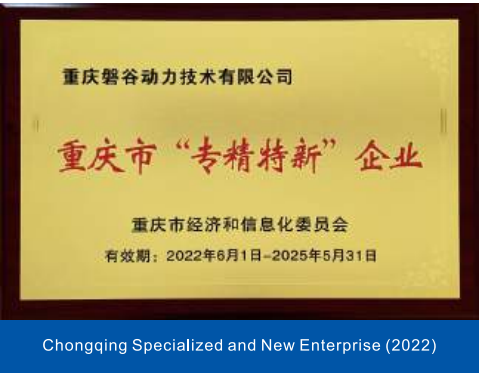


Serving the World, Pioneering the Future>>>



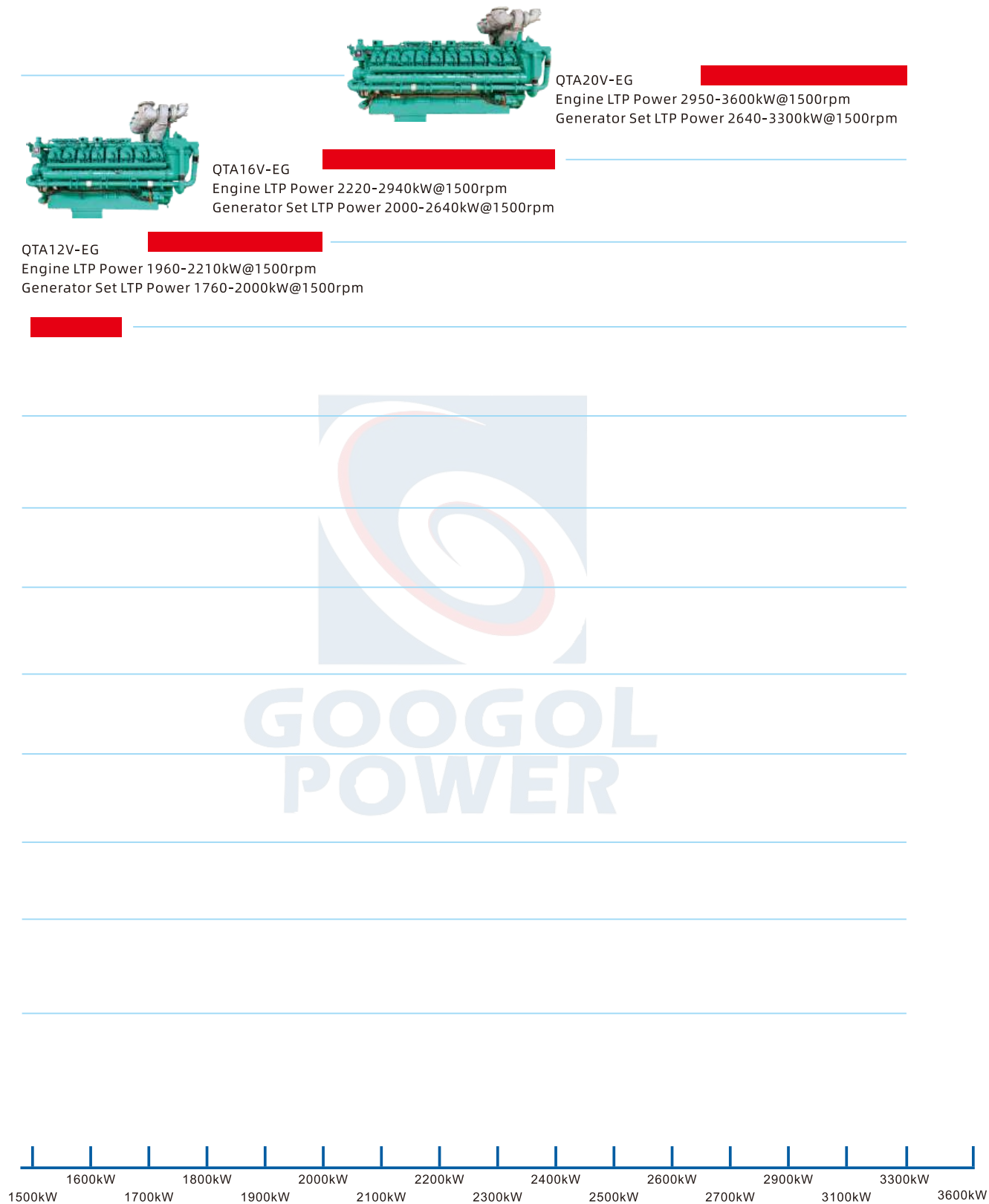
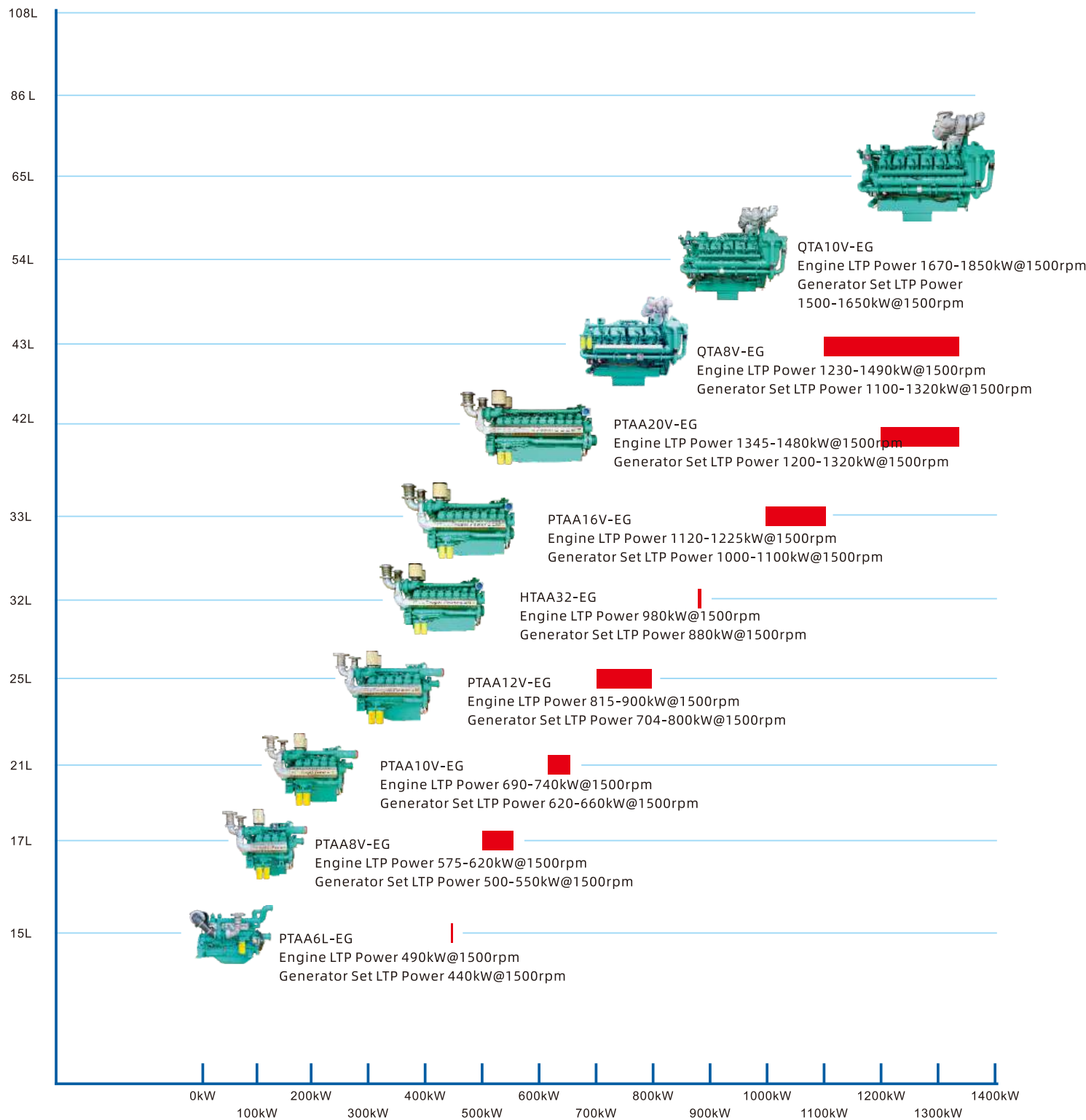
Qualifications and HonorsQualifications and Honors▶▶▶

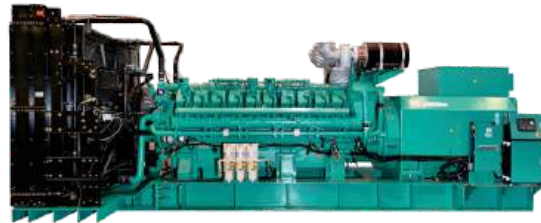
Patent Certificates▶▶▶



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企业技术研发与知识产权保护能力处于行业领先地位

Power Range Chart of Googol Diesel Engines

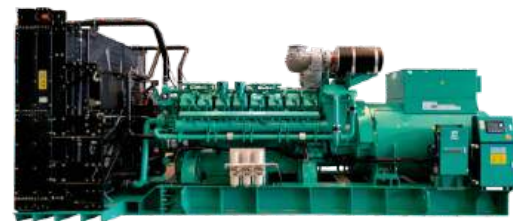




GPG3300E-HV10.5-50C
PRP Power: 2400 kW
Voltage Level: 10.5 kV

Outstanding Environmental Adaptability:

- (1) Being capable of continuous stable operation in environments ranging from 40 to 50 degrees Celsius.
- (2) Precisely controlling and maintaining stable power output under complex working conditions.



GPG2500E-HV10.5-50C
PRP Power: 1800 kW
Voltage Level: 10.5 kV

Exceptional Single-Step Loading Capability:

- (1) According to G3 standards, single-step loading capability can reach 60%-75%.
- (2) Sharing primary supply chains with globally renowned engine manufacturers.

High Power Density:

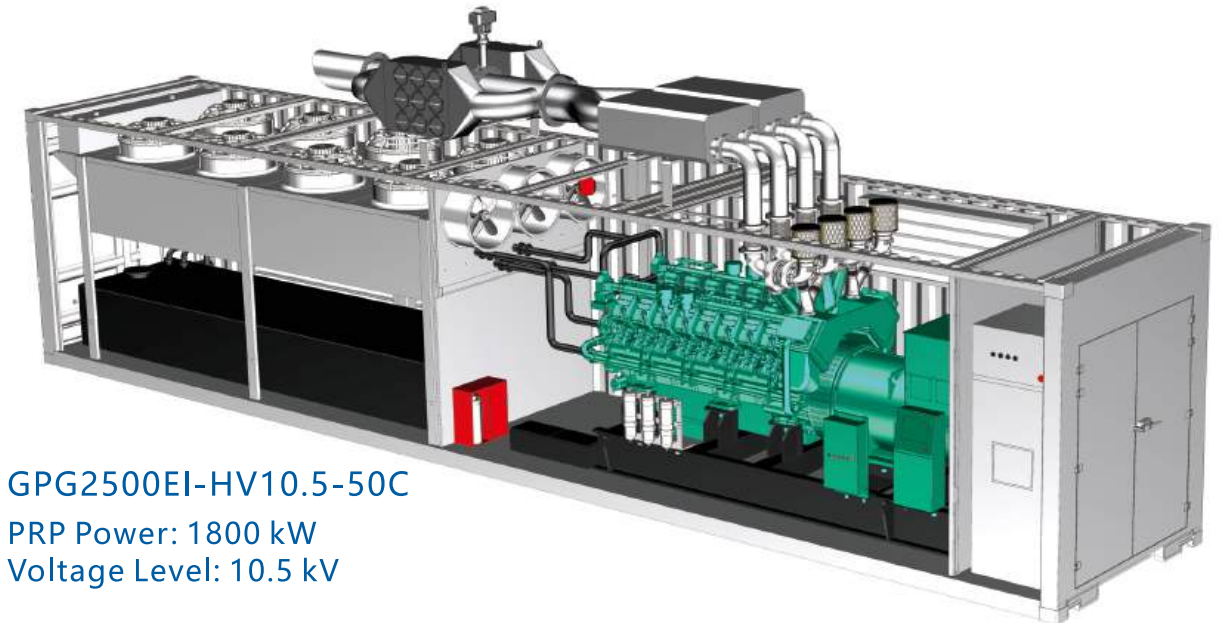
- (1) Compact structural design, with high power-to-weight ratio.
- (2) Low power displacement ratio smaller than 30kW/L, ensuring safety and reliability.



GPG2200E-HV10.5-50C
PRP Power: 1600kW
Voltage Level: 10.5kV

Low Fuel Consumption:

- (1) Equipped with a high-pressure common rail fuel injection system.
- (2) achieving a minimum fuel consumption as low as 186.5g/kWh.



GPG2500EI-HV10.5-50C
PRP Power: 1800 kW
Voltage Level: 10.5 kV

High Integration:

- (1) Customized containerized units.
- (2) Independent remote cooling systems capable of meeting extreme 50°C environmental conditions.
- (3) Integrated intelligent control systems, large-capacity fuel tanks, grounding resistance cabinets, and a design equipped with independent zones for fire suppression using heptafluoropropane, optimizing space utilization.

Rapid Delivery:

- (1) Standardized external rapid interfaces significantly reduce installation and commissioning times.
- (2) Highly integrated for swift installation, minimizing construction time for the engine room.

Convenient set-up:

- (1) The design of top exhaust air brings great convenience to the on-site layout of containers.
- (2) It can realize a variety of layout methods such as side-by-side arrangement, side-by-side staggered arrangement, and row row arrangement.

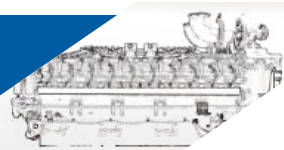
Convenient and User-Friendly:

- (1) Highly integrated products offering diverse interfaces, catering to various fuel supply choices.
- (2) Visual status of the unit, easy operation, and quick fault identification.
- (3) Consumable parts/components are easily detachable, facilitating effortless maintenance.



NO.	GENERATOR SET PARAMETERS (50Hz/400V)						ENGINE PARAMETERS (1500RPM HIGH PRESSURE COMMON RAIL - OFF ROAD NATIONAL III)								ALTERNATOR PARAMETERS (50HZ/400V)				DIMENSIONS & WEIGHT	
	GENERATOR SET MODEL	LIMITED-TIME POWER		PRIME RATED POWER		RATED CURRENT	ENGINE MODEL	LIMITED-TIME POWER	PRIME RATED POWER	NO. of CYLINDERS	DISPLACE- MENT	FUEL CONSUMPTION	LUBRICATION OIL CAPACITY	COOLANT CAPACITY	ALTERNATOR MODEL	S.B	CONT.	EFFICIENCY	DIMENSIONS	WEIGHT
		kVA	kW	kVA	kW	A		kW	kW		L	g/kW.hr	L	L		kW	kW	%	L x W x H	kg
1	GPDG550E	550	440	500	400	722	PTAA6L-EG490	490	450	L6	14.3	198.20	40	16	GP500-4P	440	400	94.3	3400×1300×1650	3400
2	GPDG625E	625	500	563	450	812	PTAA8V-EG575	575	510	V8	16.6	198.20	28	20	GP563-4P	500	450	94.9	3100×1400×2100	3050
3	GPDG688E	688	550	625	500	902	PTAA8V-EG620	620	570	V8	16.6	197.60	28	20	GP625-4P	550	500	95	3200×1400×2100	3200
4	GPDG775E	775	620	700	560	1010	PTAA10V-EG690	690	630	V10	20.8	198.10	34	21	GP700-4P	620	560	95	3400×1400×2100	3980
5	GPDG825E	825	660	750	600	1082	PTAA10V-EG740	740	670	V10	20.8	198.10	34	21	GP750-4P	660	600	93.2	3550×1400×2100	4100
6	GPDG880E	880	704	800	640	1155	PTAA12V-EG815	815	730	V12	24.9	199.30	36	23	GP800-4P	700	640	93.6	3700×1800×2200	4600
7	GPDG1000E	1000	800	900	720	1299	PTAA12V-EG900	900	810	V12	24.9	198.80	36	23	GP900-4P	800	730	93.5	3700×1800×2200	5800
8	GPDG1100E	1100	880	1000	800	1443	PTAA16V-EG980	980	890	V16	31.8	198.10	48	32	GP1000-4P	880	800	94.2	4200×2200×2400	6480
9	GPDG1250E	1250	1000	1125	900	1624	PTAA16V-EG1120	1120	1010	V16	33.2	193.60	48	32	GP1125-4P	1000	910	94.8	4200×2200×2400	6710
10	GPDG1375E	1375	1100	1250	1000	1804	PTAA16V-EG1225	1225	1110	V16	33.2	193.30	48	32	GP1250-4P	1100	1000	94.9	4200×2200×2400	7050
11	GPDG1500E	1500	1200	1375	1100	1984	PTAA20V-EG1345	1345	1220	V20	41.5	196.40	60	40	GP1375-4P	1200	1100	94.9	4700×2400×2800	7883
12	GPDG1650E	1650	1320	1500	1200	2165	PTAA20V-EG1480	1480	1330	V20	41.5	196.20	60	40	GP1500-4P	1375	1250	95.3	4800×2400×2800	8090
13	GPDG1375E	1400	1100	1250	1000	1804	QTA8V-EG1230D	1230	1120	V8	43.0	193.32	115	70	GP1250-4P	1100	1000	94.9	4800×2200×2600	8760
14	GPDG1500E	1500	1200	1375	1100	1984	QTA8V-EG1350D	1350	1230	V8	43.0	192.36	115	70	GP1375-4P	1200	1100	94.9	4800×2200×2600	8770
15	GPDG1650E	1650	1320	1500	1200	2165	QTA8V-EG1490	1490	1345	V8	43.0	192,28	115	70	GP1500-4P	1375	1250	95.3	4800×2200×2600	9030
16	GPDG1875E	1875	1500	1688	1350	2435	QTA10V-EG1670D	1670	1500	V10	53.8	186.86	150	85	GP1688-4P	1500	1350	96.1	5200×2200×2850	10330
17	GPDG2063E	2063	1650	1875	1500	2706	QTA10V-EG1850	1850	1680	V10	53.8	186.68	150	85	GP1875-4P	1672	1520	95.8	5200×2200×2850	10570
18	GPDG2200E	2200	1760	2000	1600	2886	QTA12V-EG1960D	1960	1780	V12	64.5	185.88	180	100	GP2050-4P	1830	1664	96	5600×2600×2900	11700
19	GPDG2250E	2250	1800	2050	1640	2959	QTA12V-EG1990D	1990	1810	V12	64.5	185.68	180	100	GP2050-4P	1830	1664	96	5600×2600×2900	11850
20	GPDG2500E	2500	2000	2250	1800	3247	QTA12V-EG2210	2210	2010	V12	64.5	184.95	180	100	GP2250-4P	2000	1800	96	5600×2600×2900	11920
21	GPDG2500E	2500	2000	2250	1800	3247	QTA16V-EG2220D	2220	2000	V16	86.0	188.90	240	140	GP2250-4P	2000	1800	96	6100×2600×2900	14150
22	GPDG2750E	2750	2200	2500	2000	3608	QTA16V-EG2440D	2440	2220	V16	86.0	188.30	240	140	GP2500-4P	2200	2000	96	6450×2900×3300	14890
23	GPDG3000E	3000	2400	2750	2200	3969	QTA16V-EG2660D	2660	2440	V16	86.0	186.77	240	140	GP2750-4P	2420	2200	96	6600×2900×3300	16770
24	GPDG3300E	3300	2640	3000	2400	4330	QTA16V-EG2940	2940	2675	V16	86.0	186.82	240	140	GP3000-4P	2640	2400	96	6750×2900×3300	17270
25	GPDG3300E	3300	2640	3000	2400	4330	QTA20V-EG2950D	2950	2680	V20	107.5	191.97	300	200	GP3000-4P	2640	2400	96.3	7250×2900×3300	20500
26	GPDG3438E	3438	2750	3125	2500	4510	QTA20V-EG3100D	3100	2810	V20	107.5	191.92	300	200	GP3125-4P	2750	2500	96.8	7400×2900×3300	20800
27	GPDG3575E	3575	2860	3250	2600	4690	QTA20V-EG3200D	3200	2900	V20	107.5	191.26	300	200	GP3250-4P	2860	2600	96.8	7400×2900×3300	21600
28	GPDG3750E	3750	3000	3375	2700	4870	QTA20V-EG3330D	3330	3010	V20	107.5	190.82	300	200	GP3500-4P	3080	2800	97	7500×2900×3300	21600
29	GPDG4125E	4125	3300	3750	3000	5412	QTA20V-EG3600	3600	3300	V20	107.5	190.74	300	200	GP3750-4P	3300	3000	97	7600×2900×3300	21800

备注：1、机组的通风量按常用功率，每1kW需要的进风量按100m³/h计算；例如GPDG2500E-40A,常用功率1800kW,发电机组需要的进风量为1800×100=180000m³



NO.	GENERATOR SET PARAMETERS (50Hz/10.5kV)							ENGINE PARAMETERS (1500RPM HIGH PRESSURE COMMON RAIL- OFF ROAD NATIONAL III)								ALTERNATOR PARAMETERS (50HZ/10.5kV)				DIMENSIONS & WEIGHT	
	GENERATOR SET MODEL	LIMITED-TIME POWER		PRIME RATED POWER		POWER FACTOR	Single-Step Loading Capacity to Meet G3 Performance Standards /kW	ENGINE MODEL	LIMITED-TIME POWER	PRIME RATED POWER	NO. of CYLINDERS	DISPLACEMENT	FUEL CONSUMPTION	LUBRICATION OIL CAPACITY	COOLANT CAPACITY	ALTERNATOR MODEL	S.B	CONT.	EFFICIENCY	DIMENSIONS	WEIGHT
		kW	kVA	kW	kVA				kW	kW							kW	kW	%	L x W x H	kg
1	GPDG1375EHV10.5	1100	1375	1000	1250	0.8	650	QTA8V-EG1230D	1230	1120	V8	43	193.32	115	70	GPH1250-4P	1100	1000	95.5	5200×2200×2650	9770
2	GPDG1500EHV10.5	1200	1500	1100	1375	0.8	650	QTA8V-EG1350D	1350	1230	V8	43	192.36	115	70	GPH1375-4P	1232	1120	95.3	5200×2200×2650	10770
3	GPDG1650EHV10.5	1320	1650	1200	1500	0.8	650	QTA8V-EG1490	1490	1345	V8	43	192.28	115	70	GPH1500-4P	1374	1200	95.2	5250×2200×2650	10770
4	GPDG1875EHV10.5	1500	1875	1350	1688	0.8	810	QTA10V-EG1670D	1670	1520	V10	53.8	186.86	150	85	GPH1688-4P	1500	1350	95.5	5600×2200×2850	13005
5	GPDG2063EHV10.5	1650	2063	1500	1875	0.8	810	QTA10V-EGV1850	1850	1680	V10	53.8	186.68	150	85	GPH1875-4P	1650	1500	95.6	5600×2200×2850	13150
6	GPDG2200EHV10.5	1760	2200	1600	2000	0.8	1000	QTA12V-EG1960D	1960	1780	V12	64.5	185.88	180	100	GPH2063-4P	1815	1650	95.9	6000×2600×2900	14000
7	GPDG2250EHV10.5	1800	2250	1640	2050	0.8	1000	QTA12V-EG1990D	1990	1810	V12	64.5	185.68	180	100	GPH2063-4P	1815	1650	95.9	6000×2600×2900	14300
8	GPDG2500EHV10.5	2000	2500	1800	2250	0.8	1000	QTA12V-EG2210	2210	2010	V12	64.5	184.95	180	100	GPH2250-4P	2000	1800	96.1	6100×2600×2900	14520
9	GPDG2500EHV10.5	2000	2500	1800	2250	0.8	1400	QTA16V-EG2220D	2220	2000	V16	86	188.9	240	140	GPH2250-4P	2000	1800	96.1	6600×2600×2900	16480
10	GPDG2750EHV10.5	2200	2750	2000	2500	0.8	1400	QTA16V-EG2440D	2440	2220	V16	86	188.3	240	140	GPH2500-4P	2200	2000	96.2	6800×2900×3300	17180
11	GPDG3000EHV10.5	2400	3000	2200	2750	0.8	1400	QTA16V-EG2660D	2660	2440	V16	86	186.77	240	140	GPH2750-4P	2420	2200	96.3	7000×2900×3300	17635
12	GPDG3300EHV10.5	2640	3300	2400	3000	0.8	1400	QTA16V-EG2940	2940	2675	V16	86	186.82	240	140	GPH3000-4P	2640	2400	96.4	7000×2900×3300	18000
13	GPDG3300EHV10.5	2640	3300	2400	3000	0.8	1680	QTA20V-EG2950D	2950	2680	V20	107.5	191.97	300	200	GPH3000-4P	2640	2400	96.4	7400×2900×3300	19950
14	GPDG3438EHV10.5	2750	3438	2500	3125	0.8	1680	QTA20V-EG3100D	3100	2810	V20	107.5	191.92	300	200	GPH3250-4P	2750	2500	96.4	7400×2900×3300	21450
15	GPDG3575EHV10.5	2860	3575	2600	3250	0.8	1680	QTA20V-EG3200D	3200	2900	V20	107.5	191.26	300	200	GPH3250-4P	2860	2600	96.5	7400×2900×3300	21450
16	GPDG3750EHV10.5	3000	3750	2700	3375	0.8	1680	QTA20V-EG3330D	3330	3010	V20	107.5	190.82	300	200	GPH3500-4P	3080	2800	96.6	7500×2900×3300	21850
17	GPDG4125EHV10.5	3300	4125	3000	3750	0.8	1680	QTA20V-EG3600	3600	3300	V20	107.5	190.82	300	200	GPH3750-4P	3300	3000	96.8	7600×2900×3300	22350

Note:

1, Prime Rated Power(PRP) and Standby Power(LTP) are measured at 25°C ambient temperature.

3,Standby Power (LTP): Indicates that under changing load conditions, the generator is allowed to operate at the rated power for 1 hour per 12-hour period.

5, Relationship between generator power and altitude: For altitudes above 1500 meters, every 300-meter increase results in a 4% decrease in power.

2, Prime Rated Power (PRP): referring to the continuous operating power under variable load conditions, the average load within a 24-hour cycle should not exceed 70% of the generator's prime rated power.

4, Relationship between generator power and ambient temperature: For ambient temperatures exceeding 40°C, every 10°C increase results in a 3% decrease in power.

6, Generator dimensions and weight are subject to actual conditions. We reserve the right to modify technical parameters without prior notice to customers.

磐谷原厂制造整套柴油发电机组

Diesel Generator Set

Product Characteristics

- High Reliability
- Low Fuel Consumption
- Strong Power Output
- Low Maintenance Cost
- Swift Service

Generator Power Output

- Standby Power(LTP): 440-3300kW
- Prime Rated Power (PRP): 400
- 3000kW-Generator set also satisfies ISO 8528-5 overload capacity standards.

Control Systems of the Generator Set

- Single Intelligent Control SystemEquipped with utility power quantity monitoring and automatic mains/generator switching control functions (AMF).
- Multiple Unit Parallel Intelligent Controllers Applicable for parallel connection of multiple units with identical or different capacities, manual/automatic parallel connection, as well as constant power output and mains synchronization for a single generator set. This facilitates automatic start/stop/parallel operation, data measurement, alarm protection, and "three remote" functions.
- Parallel Redundancy Control Generators in data centers and specific environments are equipped with redundant controllers to ensure stable and reliable control.

Warranty

- For non-data center applications, the engine provides a three-year or 3000-hour warranty, whichever comes first.
- For data center applications, the engine provides a five-year or 4500-hour warranty, whichever comes first.-AC generators are covered by a three-year or 3000-hour warranty.
- Free repair or replacement for failures due to engine design or component quality defects throughout the entire lifecycle.

Included Accessories with the Generator Set:

- Control panel-Fuel system-Exhaust system
- Engine, generator, and mounting base
- Batteries-Radiator water tank

Technical Standards Met by the Generator Set-Generator

- complies with ISO 8528 standards.
- Generator set meets ISO 9001:2015 and ISO 14001:2015 standards.
- 10.5KV models conform to YD/T2888-2015 standards for communication
- use 10KV high-voltage generator sets.
- Generator set complies with ISO 8528-5 standards for G3 performance and single-step loading capacity.

Overall Performance Testing of the Generator Set

- Generator sets undergo ISO 8528-5 transient response.
- Testing at 100% load.
- Engine systems undergo prototype and factory testing.
- The design, manufacturing, and quality of the generator set undergo comprehensive performance testing validation.

AC Alternators

Googol alternators utilize a rotor design with 2/3 pitch, with PGA and PGB series for low-voltage AC generators. PGA series can support 110% continuous power for 1 hour within a 12-hour cycle, while PGB series can support 110% continuous power for 15 minutes within a 12-hour cycle, suitable for emergency backup scenarios with low loads. High-voltage generators optimize airflow design using fluid simulation technology to enhance heat dissipation, efficiency, and reduce temperature rise, employing VPI vacuum pressure impregnation, H-grade insulation, extremely low transient reactance to meet various nonlinear load requirements.

Heat Dissipation for the Generator Set

- Offering a choice of aluminum or copper 40°C and 50°C water tanks based on project and environmental requirements to ensure adequate heat dissipation for continuous full-load generator operation.

Engine Emission Certification

- Meet the emission certification requirements for the third stage of non road engine in China

Optional Accessories Available for Purchase:

- Output circuit breaker and installation enclosure
- Lubricating oil heater- Cooling water heater
- Battery float charger
- Heavy-duty secondary silencer
- * For additional optional accessories, please consult Googol's sales service personnel.

Application Cases>>>



SMIC(Semiconductor Manufacturing International Corporation)

LTP Power: 1800/2400kW
Equipment Voltage: 10.5kV
Quantity Purchased: Seven units in total
Project Location: Beijing



Jiangxi Brothers Pharmaceutical Co., Ltd.

LTP Power: 2640kW
Equipment Voltage: 10.5kV
Quantity Purchased: Two units
Project Location: Jiujiang, Jiangxi



China Glass Holdings

LTP Power: 1800kW
Equipment Voltage: 10.5kV
Quantity Purchased: Six units
Project Location: Nigeria



Qibin Glass

LTP Power: 2200kW
Equipment Voltage: 10.5kV
Quantity Purchased: Eleven units
Project Location: Zhangzhou, Fujian



China Unicom

LTP Power: 2000kW/2420kW
Equipment Voltage: 10.5kV
Quantity Purchased: Ten units
Project Locations: Beijing, Guiyang



People's Bank of China Anti-Money Laundering Monitoring and Analysis Center

LTP Power: 2000kW
Equipment Voltage: 10.5kV
Quantity Purchased: Three units
Project Location: Shanghai



China Telecom Guiyang Project

LTP Power: 2000kW
Equipment Voltage: 10.5kV
Quantity Purchased: Nine units
Project Location: Guiyang



Guizhou Zunyi Big Data Center

LTP Power: 2200kW
Equipment Voltage: 10.5kV
Quantity Purchased: Seven units
Project Location: Zunyi, Guizhou



China Mobile Guangzhou Data Center

LTP Power: 1650/2420kW
Equipment Voltage: 10.5kV
Quantity Purchased: Nine units
Project Location: Guangzhou



China-ASEAN (Bama) Big Data Cloud Computing Base Phase I

LTP Power: 2200kW
Equipment Voltage: 10.5kV
Quantity Purchased: Six units
Project Location: Bama, Guangxi



Weihai Zhigu Valley

LTP Power: 2000/2200kW
Equipment Voltage: 10.5kV
Quantity Purchased: Twelve units
Project Location: Jiangmen, Guangdong



Chinese Academy of Sciences Institute of Atmospheric Physics Data Center

LTP Power: 1800kW
Equipment Voltage: 10.5kV
Quantity Purchased: Five units
Project Location: Beijing



South-to-North Water Diversion Project in North China

LTP Power: 2200kW
Equipment Voltage: 400V
Quantity Purchased: Four units
Project Locations: Beijing Miyun, Daning, Huairou, Changping



The Chinese University of Hong Kong, Shenzhen

LTP Power: 1650kW
Equipment Voltage: 10.5kV
Quantity Purchased: Four units
Project Location: Shenzhen



Tibet Radio and Television

LTP Power: 1000-2420kW
Equipment Voltage: 400V/10.5kV
Quantity Purchased: Eight units
Project Location: Lhasa



A Certain Media University Data Center in Northern China

LTP Power: 2200kW
Equipment Voltage: 400V
Quantity Purchased: Two units
Project Location: Shenyang



Beijing High-Speed Rail Fengtai Station/ Xiongan Station

LTP Power: 1100-1320kW
Equipment Voltage: 400V
Quantity Purchased: Seven units
Project Location: Beijing



Guizhou Women and Children's International Hospital

LTP Power: 1320/1650kW
Equipment Voltage: 400V
Quantity Purchased: Five units
Project Location: Guiyang



Hangzhou West Station

LTP Power: 2200kW
Equipment Voltage: 10.5kV
Quantity Purchased: Two units
Project Location: Hangzhou



The First Affiliated Hospital of Suzhou University

LTP Power: 1800kW
Equipment Voltage: 400V
Quantity Purchased: Three units
Project Location: Suzhou



Shenyang Brilliance BMW

LTP Power: 440kW-2400kW
Equipment Voltage: 400V/660V/10.5kV
Quantity Purchased: Fourteen units
Project Location: Shenyang



CNNC Tongliao Uranium Industry

LTP Power: 2000kW
Equipment Voltage: 10.5kV
Quantity Purchased: Two units
Project Location: Tongliao, Inner Mongolia



Beijing Yandong Microelectronics Semiconductor

LTP Power: 2640kW
Equipment Voltage: 10.5kV
Quantity Purchased: Three units
Project Location: Beijing



Daquan New Energy Xinjiang Project

LTP Power: 1200-1800kW
Equipment Voltage: 400V
Quantity Purchased: Six units
Project Location: Shihezi, Xinjiang



Yiyang Sunway Communication Co., Ltd. Equipment R&D and Production Base Phase I

LTP Power: 2000kW
Equipment Voltage: 10.5kV
Quantity Purchased: Eight units
Project Location: Yiyang, Hunan



Haikou Marriott Hotel

LTP Power: 2000kW
Equipment Voltage: 10.5kV
Quantity Purchased: One units(2012)
Project Location: Haikou



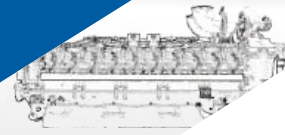
Xiaopeng Motors Wuhan Base

LTP Power: 660/2200kW
Equipment Voltage: 400V
Quantity Purchased: Two units
Project Location: Wuhan



Tianjin SM Square

LTP Power: 2200kW
Equipment Voltage: 400V
Quantity Purchased: Five units
Project Location: Tianjin



State Security Bureau Jinge Lou Data Center

LTP Power: 2000kW
Equipment Voltage: 10.5kV
Quantity Purchased: Four units
Project Location: Beijing



Guizhou Public Security Department Data Center

LTP Power: 1800kW
Equipment Voltage: 10.5kV
Quantity Purchased: Four units
Project Location: Guiyang



Xiamen Yinglan International Financial Center

LTP Power: 1800kW
Equipment Voltage: 10.5kV
Quantity Purchased: Six units
Project Location: Xiamen, Fujian



Tianjin Airport Copper Bull Data Center

LTP Power: 1800kW
Equipment Voltage: 10.5V
Quantity Purchased: Six units
Project Location: Tianjin



Shanxi National Advanced Computing Center

LTP Power: 1600kW
Equipment Voltage: 10.5kV
Quantity Purchased: Five units
Project Location: Taiyuan, Shanxi



Pengcheng Laboratory

LTP Power: 1000kW-2000kW
Equipment Voltage: 400V/10.5kV
Quantity Purchased: Nine units
Project Location: Shenzhen



Guangdong Taxation Bureau Data Center

LTP Power: 2400kW
Equipment Voltage: 10.5kV
Quantity Purchased: Two units
Project Location: Guangzhou



FAW-Volkswagen Data Center

LTP Power: 1800kW
Equipment Voltage: 10.5kV
Quantity Purchased: Two units
Project Location: Changchun, Jilin