

SUMEC

FIRMAN
POWER EQUIPMENT



FIRMAN®
POWER ON DEMAND

GREENESCO: Official Distributor of SUMEC Group
8, Omirou str, 10564 Athens GREECE
+210 3677744, www.greenesco.gr, info@greenesco.gr



• Brief Introduction

FIRMAN is a generating equipment brand under SUMEC Group. As an important member of SINOMACH, a Fortune 500 enterprise, SUMEC Group was founded in 1978 and specializes in trade and service, engineering contracting, and investment development.

After 30 years of development, SUMEC has become an international and diversified modern manufacturing service group.

For years, FIRMAN brand trademark has been registered in 92 countries and regions all over the world. FIRMAN products are widely applied to many fields such as routine life, industrial production, communications, medical care, finance, energy, and construction. FIRMAN provides professional products and services for customers from more than 100 countries and regions in the world.

We are committed to creating stable, highly-efficient, and clean generating equipment and integrated power solution for customers and help customers obtain reliable power supply, reduce energy consumption, and save operation and maintenance (O&M) costs.

FIRMAN generator sets ranked first for six consecutive years among brands of exported portable Gasoline Generator in China.

FIRMAN products have extremely high market share in Southeast Asia and Africa, where the market share in the core sales area exceeds 30%. The brand image has been deeply rooted in local users' hearts.



- **Brand History**

- In 2001, the FIRMAN brand was formally established.
- In 2007, FIRMAN generator sets ranked first among brands of exported portable Gasoline Generator in China.
- In 2010, FIRMAN performed the exclusive agent or oligopoly distribution system, and established long-term strategic partnerships with some world leading distributors in the generator industry.
- In 2011, the 10,000,000th FIRMAN Gasoline Generator went off the production line.
- In 2012, the total export amount of FIRMAN portable Gasoline Generator exceeded USD 100 million.

FIRMAN invested more than USD 1 million for outdoor advertising in markets all over the world.

FIRMAN products were recommended by PUNCH, the most authoritative business newspaper in Nigeria.

FIRMAN participated in Lagos International Trade Exhibition, the most important large exhibition in Africa, as a mainstream brand manufacture.

- In 2013, the construction of FIRMAN standard retail stores for the terminal market and showrooms in key areas were complete.

The durability of FIRMAN products set a record in Indonesian Museum of Records (Muri).

- In 2014, FIRMAN established a strategic partnership with KOHLER Engines.



R&D Manufacture

- **Manufacturing**

High-quality manufacturing is the core step to satisfy needs of customers.

We strengthen the enterprise management and implement "zero defect" of FIRMAN products through advanced equipment and craft, scientific management, and multi-level quality control and guarantee system.

Since 1997, SUMEC Group has established multiple wholly-owned and joint venture plants, with core products covering Gasoline Generators, diesel generating sets (1 KVA-3000 KVA), generating and welding sets, water pump generator sets, marine generator sets, high-voltage generator sets, and heavy oil generator sets, and has been making every effort to provide customers with products with high quality, excellent performance, and perfect user experience.

SUMEC make products be the most reliable guarantee of users' life.





- **Design and R&D**

We insist on innovation with users, and take advantage of the global R&D network, cooperate with partners, and explore the market direction to meet users' requirements in a rapid mode, provide stable and reliable power support for customers, and create new value objectives jointly with users. So far, FIRMAN has the product technology R&D, test, and development capabilities, can complete product test and verification including the whole machine environment, strength and durability, engine performance, vibration noise, electronics, materials and craft, new product trial production, and calculation and analysis.

FIRMAN has obtained a variety of 91 patents.

Meanwhile, FIRMAN widely cooperates with well-known international certification authorities, and has got 79 international safety certificates and vocational certificates including GE and CETL. FIRMAN also gets great breakthroughs in operation stability and durability:

1. FIRMAN FDG25YDS/FDG25FS Diesel Generating Set runs uninterruptedly for 1513 hours, which overwrites the latest record (1086 hours) in Indonesian Museum of Records (Muri).
2. Twelve FIRMAN 10 KV plateau high-voltage Diesel Generating Sets have implemented gridconnected generation in Changdu, Tibet with the elevation exceeding 3300 meters. The generator sets has run for accumulative 14706 hours.
3. FIRMAN 10 KW common two-cylinder Gasoline Generator and silent series have continuously run for 1000 hours, far longer than the required running time of 250 hours in the industry.



Diesel Generating Set



SOUNDPROOF POWERED BY FIRMAN



SOUNDPROOF POWERED BY PERKINS



OPENTYPE POWERED BY PERKINS



OPENTYPE POWERED BY MTU



SOUNDPROOF POWERED BY CUMMINS



OPENTYPE POWERED BY CUMMINS



Customized Set



CONTAINER GENERATOR SET



MILITARY GENERATOR SET



PLATEAU GENERATOR SET



OFFSHORE PLATFORM GENERATORE SET



Green Energy Power Generator



**SOLAR-DIESEL HYBRID
GENERATOR SET**



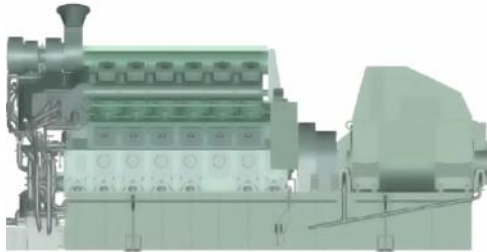
BIOGAS GENERATOR SET



GAS GENERATOR SET



Special Units



HFO



HIGH VOLTAGE
GENERATOR SET



MOBILE POWER SUPPLY



LIGHTING TOWER



SDW 400 DCT



FIRMAN[®]

SUMEC MACHINERY & ELECTRIC CO., LTD.

ADD: 17F, 198 CHANGJIANG ROAD, NANJING, CHINA, 210018

TEL: +86-25-84531705

FAX: +86-25-84545196

E-MAIL: xscheng@sumec.com.cn

WEBSITE: <http://www.sumecfirman.com>

SUMEC Machinery & Electric Co., LTD. reserves the right to modify any specifications and appearance design in the catalogue without notice. In a constant effort to improve the quality of its products.

All rights reserved !

P/N 20150314 REV02 P02



DIESEL GENERATING SET

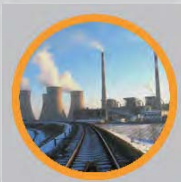
<http://www.sumecfirman.com> 

GREENESCO Ομήρου 8, 10564 Αθήνα
T. 2103677744, 2111077744
info@greenesco.gr

www.greenesco.gr

SUMEC

POWER SOLUTIONS LEADER



Wherever you are
FIRMAN Will
be there

In endless pursuit of integrity and profession with the spirit of innovation and excellence, FIRMAN shows you the best power solution, guides you to new life experience.

FIRMAN

A Strong Brand for Generators from China

FIRMAN has specialized in the developing, manufacturing and sale of excellent generators, including portable gasoline generator and professional diesel generators supplying, commissioning from 1 to 4000KVA through more than 20 years of experience. FIRMAN shall solidify its leading role in generators through innovation of new products.

What makes FIRMAN so significant in generators:

- Selecting high quality materials and components
- Strict manufacturing program
- Strict quality control program and measures
- Innovation of new products by professional R&D
- Strong marketing and sale network
- Complete service network
- Complete line of accessories and spare parts with warranties
- Meeting all relevant safety directives and tests
- Environmental friendly and meeting relevant exhaust and evaporation emission regulation and noise requirement

TRADITION AND HISTORY



CERTIFICATE OF JANGSU FAMOUS EXPORT BRAND

- Rigorous selection of raw materials and spare parts, ensuring that all are from first-class suppliers
- Strictly controlled manufacturing process and outgoing quality control
- Professional and proficient technical personnel



EXPORT BRAND OF YEAR 2009



Patent Certificate



CE/TUV Certificate



“FIRMAN” is from a big family.

Founded in 1978, SUMEC Group Corporation is a key member of China National Machinery Industry Corporation. It is one of the largest import corporation in China, with more than 30 subsidiaries and annual sales of over 2.8 billion US dollars.

As SUMEC's core subsidiary, SUMEC Machinery & Electric Co., Ltd. is China's largest manufacturing and export enterprise of power machineries, with its products covering 0.5–4000KVA power machineries including tens of series of gasoline and diesel generators, engines, water pumps and welding machines. The products are sold to honorable titles as 'Recommended Export Brand by China Chamber of Commerce for Import and Export of Machinery and Electronic Products' and 'Strongly Supported Export Brand in Jiangsu Province', but also has become a well-known brand parallel to the brands in Europe, America and Japan.

SUMEC Machinery & Electric Co., Ltd. has been committed to building and improving its technology platform, including product design and development, quality control system, intellectual property protection and product certification, etc. It now possesses dozens of patents at home and abroad, with product technology taking a leading role in China and ranking among the best in international market. It also strengthens all-round cooperations with domestic key universities, including the cooperative research program, campus scholarship and professionals co-training plan with Jiangsu University and Southeast University, which create favorable conditions for talents introduction as the knowledge update and development of the technicians.

SUMEC Machinery & Electric Co., Ltd. actively accelerates the process of industrialization. Having established several manufacturing plants successively, it now possesses the most equipment in China, about ten high quality production lines, hundreds of CNC machine centers and a huge technological R&D team, which ensure its daily production capacity of over 5000 pieces.

PRODUCTS

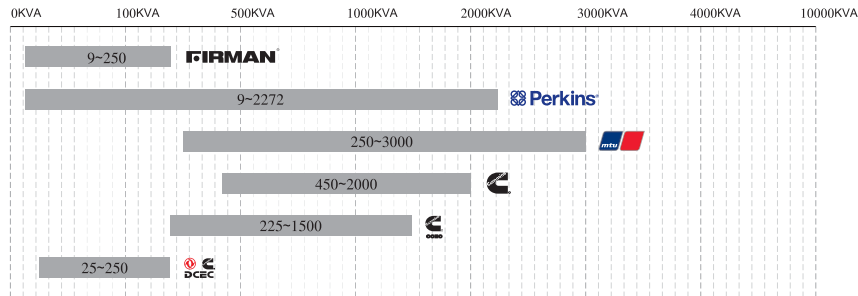
FIRMAN Diesel Generating Set Product Spectrum Table

FIRMAN diesel generating set are designed for outstanding performance under the most challenging conditions, such as tough construction sites with wind, sand, high temperature, high humidity, etc. Also soundproofed and protected on all sides and equipped with high-quality alternators (Class H insulation), FIRMAN soundproof diesel units are silent in noise emission level up to 65 dB(A) at 1 m.

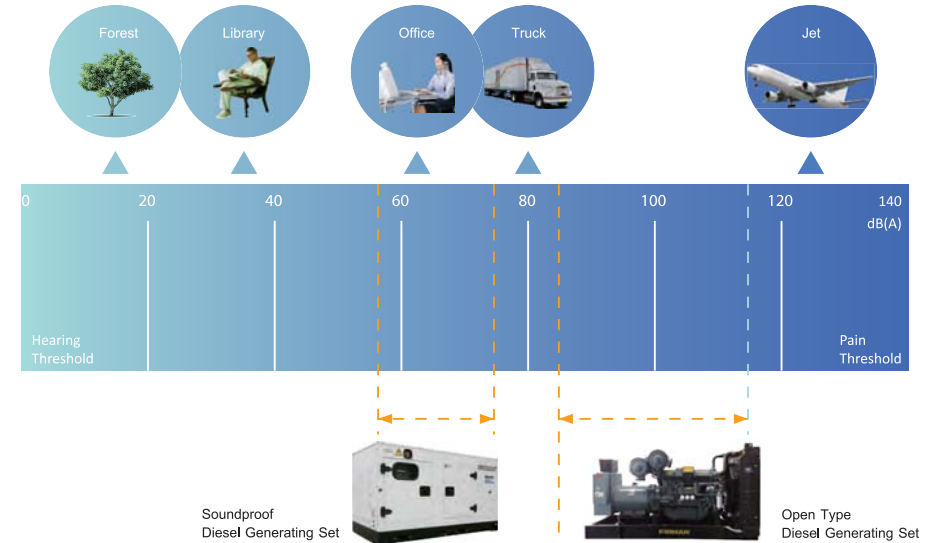
FIRMAN only use high quality industrial engines from Perkins, Cummins, MTU, as well as quality alternators from Stamford, MECC ALTE, Marathon.

FIRMAN always use durable components for generators such as chassis and soundproof cover, all fittings.

FIRMAN always use high quality branded electrical and electronic components such as switches, sockets, connectors, harness, circuit breakers, meters, sensors, relays, batteries, etc.



FIRMAN Diesel Generating Set Noise Level



SOUNDPROOF DIESEL GENERATING SET POWERED BY FIRMAN



- ① Multifunction panel can be matched with ATS
- ② IP55 sockets for fast connection
- ③ Top oil level gauge
- ④ Hidden handle easily to move
- ⑤ New design air flow area
- ⑥ Coolant recovery tank protecting environment
- ⑦ Electronic governor control, more efficiency
- ⑧ Stable base lower vibration (wheels optional)
- ⑨ Maintenance-free battery
- ⑩ High short circuit withstand alternator (H class insulation)
- ⑪ Import outdoor coating Anti-UV

Engine specification			
1	Engine Brand	FIRMAN Power	
2	Engine Model	FD280DC	
3	Governor/Class	Electrical	
4	Cylinder No.	2	
5	Cycle	Four stroke	
6	Cylinder arrangement	V Type	
7	Type of injection	Direct injection	
8	Aspiration	Naturally Aspirated	
9	Cooling mode	Water cooled	
10	Bore and stroke	80x79mm	
11	Compression ratio	23:1	
12	Displacement	0.794L	
13	Engine Prime Power	12kw	
14	Engine Standby Power	14kw	
15	Battery capacity	45A/hr	
16	Direction of rotation(Facing output end)	Counter clockwise	
17	Steady speed regulation	≤5%	
18	Fuel consumption (100% prime load /75% prime load)	2.91L/h / 2.23L/h	
19	Lubricating Oil Capacity	2.27L	
20	Coolant Capacity	2.9L	
21	Fuel Type	0# Diesel (Natural temperature)	
22	Filter system	Adopt lubricating oil filter, fuel filter	
23	Exhaust system	Adopt industrial high efficiency	
24	Weight(dry)	58Kg	

Two cylinders of FD280DC diesel engine arrange in a V-shape, which is one of few two cylinder V-shaped diesel engine in market. The whole machine takes lightweight design with aluminum alloy crankcase and the cylinder head and forged crankshaft. So the diesel engine is light, only 58kg.

Advanced electronic control technology is used in FD280DC diesel engine, which contains actuator, speed sensor, electronic throttle, ECU and other components. ECU, which has simple structure, speed stability, fast response and speed setting according to the different purposes compared with mechanical governor, issues commands to the actuator to control fuel supply of fuel pump according to the input signal and the speed sensor feedback signal of the electronic throttle. When load changes, the speed and output frequency of the diesel engine maintains invariableness, which improves power quality. The electronic control system of diesel engine does not require electronic throttle when the engine connects to alternator.

FD280DC diesel engine has excellent emission performance by using swirl combustion technology. The emission can achieve the national II and current implementation latest EPA Tier IV emission standard of USA.

Generator specification			
		1PHASE	3PHASE
1	Set Model	SDG15000SE	
2	Prime Power	10kW	
3	Standby Power	11kW	
4	Phase & Wires	1 phase 2 wires	3 phase 4 wires
5	Power Factor	1	0.8
6	Rated Gen-set output	230V 50Hz	400V 50HZ
7	Rated current	43.5	17.3
8	Frequency drop	≤5%	
9	Steady-state frequency band	≤1.5%	
10	Steady-state voltage deviation	≤±2.5%	
11	Frequency recovery time	≤3s	
12	Voltage recovery time	≤4s	
13	Rated Relative humidity	≤60%	
14	Dimension (L×W×H) net	1220mm×680mm×770mm	
15	Dimension (L×W×H) install wheel	1220mm×680mm×905mm	
16	Dimension (L×W×H) install bracket	1220mm×680mm×830mm	
17	Dimension (L×W×H) simple packing	1280mm×740mm×830mm	
18	Dimension (L×W×H) wooden case packing	1320mm×780mm×870mm	
19	Weight net	280KG	
20	Fuel tank capacity	25L	
21	Protection class	IP23	

Alternator specification			
		1PHASE	3PHASE
1	Alternator Brand	FIRMAN Power	
2	Alternator Model	FG-10SX	FG-10TX
3	Alternator Type	A.C. Synchronous	
4	Rated Voltage	230V	400V
5	Rated Frequency	50HZ	
6	Rated Speed	3000 RPM	
7	Poles	4	
8	Alternator Voltage Regulation	≤±1%	
9	Waveform Distortion	no load ≤1.5%; Non-distorting balanced linear load≤5%	
10	Telephone Interference	THF≤2%	
11	Exciting Mode	self exciting	
12	Power Factor	1	0.8
13	Phase & Wires	1 phase 2 wires	3 phase 4 wires
14	Rated Current	43.5A	17.3A
15	Efficiency	0.89	
16	Insulation Class	F	
17	Protection Class	IP20	
18	Max. Ambient Temperature	40℃	
19	Weight	32Kg	

SOUNDPROOF DIESEL GENERATING SET POWERED BY FIRMAN



- High Performance
- Terminal & socket located on canopy, easy to connect
- Double-door design, easy to operate



- Compact design
- Easy moving
- Convenient maintenance

Rating Voltage (V)	400/230	Cosφ	0.8
Frequency (Hz)	50	Engine Manufacturer	FIRMAN
Speed (rpm)	1500	Cooling Mode	Water Cooled
Phase	3		

1.M:Mechanical speed governor;E:Electronic speed governor

2.All ratings are in accordance to ISO8528,ISO3046 and ISO514;

3.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability

Genset Model	Maximum Power [LTP](KW)	Maximum Power [LTP](KVA)	Continuous Power [COP](KW)	Continuous Power [COP](KVA)	Rating Current	Sound Level (7m)dB(A)
SDG9FS	8	10	7.2	9	13	68
SDG13FS	11.2	14	10	12.5	18	68
SDG15FS	13.6	17	12	15	21.7	68
SDG18FS	16	20	14.4	18	26	68
SDG25FS	22.4	28	20	25	36.1	69
SDG30FS	26.4	33	24	30	43.3	69
SDG38FS	33	42	30	38	54.1	69
SDG36FS	32	40	28.8	36	52	68
SDG43FS	37.6	47	34.4	43	62.1	69
SDG63FS	56	69	50.4	63	91	69
SDG85FS	75.2	94	68	85	122.7	69
SDG115FS	101	127	92	115	166	70
SDG140FS	123.2	154	112	140	202.1	71
SDG185FS	163.2	204	148	185	267	71
SDG225FS	198.4	248	180	225	324.8	72
SDG250FS	220	275	200	250	360.9	72

Genset Model	Engine Model	Output (Engine)(KW)	Gov.	Cyl	Bore*Stroke	Compression ratio	Displace(L)
SDG9FS	FD380DY	10	M	3	80*90	18:1	1.357
SDG13FS	FD480DY	14	M	4	80*90	18:1	1.809
SDG15FS	FD485DY	17	M	4	85*95	18:1	2.156
SDG18FS	FD490DY	21	M	4	90*100	18:1	2.54
SDG25FS	FD4100DY	30	M	4	100*118	18:1	3.707
SDG30FS	FD4102DY	33	M	4	102*118	18:1	3.875
SDG38FS	FD4105DY	38	M	4	105*118	18:1	4.1
SDG36FS	FD3105ZDT	36	M	3	105*120	17:1	3.12
SDG43FS	FD4108DT	44	M	4	108*135	17:1	4.95
SDG83FS	FD4108ZDT	62	M	4	108*125	17:1	4.58
SDG85FS	FD4110ZLDT	80	E	4	110*125	17:1	4.75
SDG115FS	FD6105ZLDT	110	E	6	105*125	17:1	6.49
SDG140FS	FD6108ZLDT	125	E	6	108*125	17:1	6.87
SDG185FS	FD6120ZLDT	166	E	6	120*130	17.5:1	8.82
SDG225FS	FD6126ZLDT	198	E	6	126*130	16.5:1	9.726
SDG250FS	FD6126ZLD1T	223	E	6	126*130	17:1	9.726

SOUNDPROOF DIESEL GENERATING SET POWERED BY PERKINS



Design with many worldwide known research and development institutions, integrate the domestic and foreign advanced diesel engine technology, use CAD/UG three dimensional technology and CAE analysis technology. Use a new stiffness design of the main parts of the body, cylinder cover; perfectly mixed the world-class airway simulation technology and top combustion theory, configure supercharger which is a well-known band, upgrade spiral air inlet and direct injection combustion, reduce fuel consumption and improve emissions in order to start in low temperature. Small size, light weight, good reliability, and advanced performance index.



- Reliably improve the engine's cooling system, reduce the heat load. Experiment reinforced by 720 hours and 2,000 hours of the durability test. Removable-finished cylinder liner, and easy maintenance.
- Fuel-efficient Low consumption rate and specific oil consumption. Rack test specific oil consumption rate is less than 0.2%. With the advanced level in a small diesel engine industry.
- Comfortable Little vibration and low noise.
- Environmental protection To meet the non-road diesel engine emission requirements, some products meet the emission standards of the U.S. EPA, the EU E-mark, India CPCB and multinational effluent standard.



NO.	Genset Model	Output				Diesel Gensets Specification Data Specification						Dimension&Weight	
		Prime (KW)	Prime (Kva)	Standby (KW)	Standby (Kva)	Engine Model	Gov.	CyL	Bore/Stroke (mm*mm)	Displace (L)	L*W*H (mm)	Weight (kg)	
1	SDG9FS	7.2	9	8	10	FD380DY	M	3	80 x 90	1.357	1590*900*1100	600	
2	SDG13FS	10	12.5	11	14	FD480DY	M	4	80 x 90	1.809	1800*900*1100	650	
3	SDG15FS	12	15	13	17	FD485DY	M	4	85 x 95	2.156	1800*900*1100	700	
4	SDG18FS	14	18	16	20	FD490DY	M	4	90 x 100	2.54	1800*900*1100	800	
5	SDG25FS	20	25	22	28	FD4100DY	M	4	100 x 105	3.298	2050*1000*1255	920	
6	SDG30FS	24	30	26	33	FD4102DY	M	4	102 x 118	3.875	2050*1000*1255	970	
7	SDG36FS	29	36	32	40	FD3105ZDT	M	4	105 x 120	3.12	2412*1046*1342	1030	
8	SDG43FS	34	43	38	47	FD4108DT	M	4	108 x 135	5.18	2412*1046*1342	1350	
9	SDG63FS	51	64	56	70	FD4108ZDT	M	4	108 x 125	4.58	2412*1046*1342	1500	
10	SDG85FS	68	85	75	94	FD4110ZLDT	M	4	110 x 125	4.75	2412*1046*1342	1600	
11	SDG115FS	92	115	101	127	FD6105ZLDT	E	6	105 x 125	6.49	2800*1106*1550	1620	
12	SDG140FS	112	140	123	154	FD6108ZLDT	E	6	108 x 125	6.87	2800*1106*1550	1900	
13	SDG185FS	148	185	163	204	FD6120ZLDT	E	6	120 x 130	8.82	3450*1350*1900	2650	
14	SDG225FS	180	225	198	248	FD6126ZLDT	E	6	126 x 130	9.726	3450*1350*1900	2890	
15	SDG250FS	200	250	220	275	FD6126ZLDT	E	6	126 x 130	9.726	3450*1350*1900	2910	



NO.	Genset Model	Output				Diesel Gensets Specification Data Specification						Dimension&Weight	
		Prime (KW)	Prime (Kva)	Standby (KW)	Standby (Kva)	Engine Model	Gov.	CyL	Bore/Stroke (mm*mm)	Displace (L)	L*W*H (mm)	Weight (kg)	
1	SDG9FS	8	10	9	11	FD380DY	M	3	80 x 90	1.357	1590*900*1100	600	
2	SDG13FS	10.8	13.5	12	15	FD480DY	M	4	80 x 90	1.809	1800*900*1100	650	
3	SDG15FS	14.4	18	16	20	FD485DY	M	4	85 x 95	2.156	1800*900*1100	700	
4	SDG18FS	18	22	19	24	FD490DY	M	4	90 x 100	2.54	1800*900*1100	800	
5	SDG25FS	22	28	25	31	FD4100DY	M	4	100 x 105	3.298	2050*1000*1255	920	
6	SDG30FS	26	33	29	36	FD4102DY	M	4	102 x 118	3.875	2050*1000*1255	970	
7	SDG36FS	30	37.5	33	41	FD3105ZDT	M	4	105 x 120	3.12	2412*1046*1342	1030	
8	SDG43FS	40	50	44	55	FD4108DT	M	4	108 x 135	5.18	2412*1046*1342	1350	
9	SDG63FS	56	70	62	77	FD4108ZDT	M	4	108 x 125	4.58	2412*1046*1342	1500	
10	SDG85FS	72	90	79	99	FD4110ZLDT	M	4	110 x 125	4.75	2412*1046*1342	1600	
11	SDG115FS	100	125	110	138	FD6105ZLDT	E	6	105 x 125	6.49	2800*1106*1550	1620	
12	SDG140FS	120	150	132	165	FD6108ZLDT	E	6	108 x 125	6.87	2800*1106*1550	1900	
13	SDG185FS	160	200	176	220	FD6120ZLDT	E	6	120 x 130	8.82	3450*1350*1900	2650	
14	SDG225FS	200	250	220	275	FD6126ZLDT	E	6	126 x 130	9.726	3450*1350*1900	2890	
15	SDG250FS	220	275	242	303	FD6126ZLDT	E	6	126 x 130	9.726	3450*1350*1900	2910	

SUPER SILENT GENERATOR



- super silent
- high rigid canopy & base
- New design air dust

Generator	SDG42YMSS
Maximum power[LTP](KVA)	46
Maximum power[LTP](KW)	36.8
Continuous poer[COP](KVA)	42
Continuous poer[COP](KW)	33.6
Rating voltage(V)	400/230
Frequescy/Speed(Hz/rpm)	50/1500
Phase	3
cosφ	0.8
Rating current(A)	60.6
Soundpressure Level @ 7	60db(A)
Engine	
Engine manufacturer	Yanmar
Model	4TNV98T-GGE
Engine output[at rate rpm]	37.7 kW
Cylinder No.	4
Bore*Stroke	φ98*110
Compression ratio	18.1
Displacement(L)	3.319L
Aspiration	Turbo charged
Cooling type	Water Cooled
Governor type	Machanical
Coolant capacity(only engine)(L)	4.2
Genset	
Size(LxWxH)(mm)	2265*985*1700+305
Dry weight(kg)	1300

AIR-COOLED GENERATOR



- Tip-up door, easy to maintenance
- Air cooled type-Low maintenance cost
- 1500 hours full load running, No power decrease

Generator	SDG15000KE	SDG15000KTE
AC Frequency	50Hz / 60Hz	50Hz / 60Hz
Rated AC Voltage	220V,230V / 220V,230V,240V	220V/380V,230V/400V
Surge AC Output	11KVA / 12KVA	14KVA / 15KVA
Rated AC Output	9KVA / 10KVA	11.5KVA / 12.5KVA
Alternator Type	Brush,self exciting, synchronous,2-pole,single phase	Brush,self exciting, synchronous,2-pole,3-phase
Power factor COSΦ	1.0	0.8
Protection type	IP23	
Voltage Regulation	AVR	
Insulation Level	F	
Engine		
Engine Model or P/N	KD477-2	
Engine Type	Kohler air-cooled 4-stroke twin cylinder in-line diesel engine	
Bore x stroke	90x75	
Displacement	954	
Maximum Power	21.7HP	
Starting System	Electric start	
Fuel	diesel	
Fuel Tank Capacity	25 L	
Oil Capacity	3 L	
Run Time(appr.) on One Tankful @3/4 Load	8h / 7.2h	
Soundpressure Level @ 7	69db(A) / 70db(A)	
Genset		
Dimensions (L x W x H)	1313X650X878mm	
Dry Weight(appr.)	340kg	
Gross Weight (appr.)	350kg	

SOUNDPROOF DIESEL GENERATING SET POWERED BY PERKINS



50 Hz



NO.	Genset Model	Output				Diesel Gensets Specification Data Specification							Dimension & Weight	
		Prime (kW)	Prime (kva)	Standby (kW)	Standby (kva)	Engine Model	Gov.	Cyl.	Bore/Stroke (mmxmm)	Displace (L)	Cons.(L/H)	Noise Level (dB(A)@7m)	LxWxH (mm)	Weight (kg)
1	SDG9PS	7.3	9.1	8	10	403D-11G	M	3L	77/81	1.131	2	66	1980*980*1090	540
2	SDG13PS	10	12.5	11	14	403D-15G	M	3L	84/90	1.496	5.5	66	1980*980*1090	640
3	SDG20PS	16	20	18	23	404D-22G	M	4L	84/100	2.216	4	67	1980*980*1090	690
4	SDG26PS	20	25	22	28	404D-22TG	E	4L	84/100	2.216	5	67	1980*980*1090	810
5	SDG30PS	24	30	26	33	1103A-33G	M	3L	105/127	3.300	5.4	68	1980*980*1090	1240
6	SDG45PS	36	45	40	50	1103A-33TG1	M	3L	105/127	3.300	8.2	68	2280*980*1140	1350
7	SDG60PS	48	60	53	55	1103A-33TG2	M	3L	105/127	3.300	10.4	68	2280*980*1140	1500
8	SDG65PS	52	65	57	71	1104A-44TG1	M	4L	105/127	4.400	11.2	68.5	2430*1080*1350	1550
9	SDG80PS	64	80	70	88	1104A-44TG2	M	4L	105/127	4.400	14	68.5	2430*1080*1350	1650
10	SDG100PS	80	100	88	110	1104C-44TAG2	E	4L	105/127	4.400	17.1	69	2430*1080*1350	1650
11	SDG136PS	108	136	119	149	1006TAG	E	6L	100/127	5.990	24.1	71.2	2920*1130*1550	2180
12	SDG150PS	120	150	132	165	1006TAG2	E	6L	100/127	5.990	31	71.5	2920*1130*1550	2180
13	SDG185PS	144	180	158	198	1106C-E66TAG4	ECM	6L	105/127	6.600	31	71.8	2920*1130*1550	2180
14	SDG200PS	160	200	176	220	1306C-E87TAG3	ECM	6L	116.6/135.9	8.700	37	72	3820*1130*1950	2980
15	SDG230PS	184	230	202	253	1306C-E87TAG4	ECM	6L	116.6/135.9	8.700	39	72.2	3820*1130*1950	2980
16	SDG250PS	200	250	220	275	1306C-E87TAG6	ECM	6L	116.6/135.9	8.700	43	72.5	3820*1130*1950	2980
17	SDG350PS	280	350	308	385	2206A-E13TAG2	ECM	6L	130/157	12.500	54	73.2	4820*1380*2350	4620
18	SDG400PS	320	400	352	440	2206A-E13TAG3	ECM	6L	130/157	12.500	62	73.5	4820*1380*2350	4680
19	SDG460PS	368	460	400	500	2506A-E15TAG1	ECM	6L	135/171	15.200	72	74.2	5120*1380*2350	5030
20	SDG500PS	400	500	440	550	2506A-E15TAG2	ECM	6L	137/171	15.200	76	74.8	5120*1380*2350	5080
21	SDG600PS	480	600	528	660	2806A-E18TAG1A	ECM	6L	145/183	18.130	90	76	5120*1380*2350	5920
22	SDG650PS	520	650	572	715	2806A-E18TAG2	ECM	6L	145/183	18.130	97	76.5	5120*1380*2350	6020

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO3046 and BS5514;

3.All ratings are under condition:50Hz,1500r/min,400V,lagging power factor(0.8),3-phase, 4-wire(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability



60 Hz

NO.	Genset Model	Output				Diesel Gensets Specification Data Specification					Dimension&Weight		
		Prime (kW)	Prime (kva)	Standby (kW)	Standby (kva)	Engine Model	Gov.	Cyl.	Bore/Stroke (mm:mm)	Displace (L)	Noise Level (dB(A)@7m)	LxWxH (mm)	Weight (kg)
1	SDG11PS	9	11	10	12	403D-11G	M	3L	77/81	1.313	66	1980*980*1090	540
2	SDG16PS	13	16	14	18	403D-15G	M	3L	84/90	1.496	66	1980*980*1090	640
3	SDG24PS	19	24	21	26	404D-22G	M	4L	84/100	2.216	67	1980*980*1090	690
4	SDG32PS	25.5	32	28	35	404D-22TG	M	4L	84/100	2.216	67	1980*980*1090	810
5	SDG35PS	28	35	31	39	1103A-33G	M	3L	105/127	3.300	68	1980*980*1090	1240
6	SDG53PS	43	53	47	58	1103A-33TG1	M	3L	105/127	3.300	68	2280*980*1140	1350
7	SDG68PS	55	68	60	75	1103A-33TG2	M	3L	105/127	3.300	68	2280*980*1140	1500
8	SDG76PS	61	76	67	84	1104A-44TG1	M	4L	105/127	4.400	68.5	2430*1080*1350	1550
9	SDG91PS	73	91	80	100	1104A-44TG2	E	4L	105/127	4.400	68.5	2430*1080*1350	1650
10	SDG112P	90	91	100	100	1104C-44TAG2	M	4L	105/127	4.400	69	2920*1130*1550	2180
11	SDG135P	108	155	120	171	1106A-70TAG1	M	6L	105/127	7.000	69	2920*1130*1550	2180
12	SDG150P	120	159	132	178	1106A-70TAG2	M	6L	105/127	7.000	69	2920*1130*1550	2180
13	SDG180P	144	170	158	190	1106A-70TAG3	M	6L	105/127	7.000	70	2920*1130*1550	2180
14	SDG230PS	185	230	202	253	1306C-E87TAG3	ECU	6L	116.6/135.9	8.700	70	3820*1130*1950	2980
15	SDG245PS	196	245	216	270	1306C-E87TAG4	ECU	6L	116.6/135.9	8.700	70	3820*1130*1950	2980
16	SDG400PS	320	400	350	438	2206A-E13TAG5	ECU	6L	130/157	12.500	72	4820*1380*2350	4620
17	SDG438PS	350	438	385	480	2206A-E13TAG6	ECU	6L	130/157	12.500	72	4820*1380*2350	4620
18	SDG500PS	400	500	440	550	2506D-E15TAG1	ECU	6L	135/171	15.200	72.5	5120*1380*2350	5030
19	SDG569PS	455	569	500	624	2506C-E15TAG3	ECU	6L	135/171	15.200	72.5	5120*1380*2350	5080
20	SDG625PS	500	625	550	687	2806A-E18TAG1A	ECU	6L	145/183	18.130	74	5120*1380*2350	5920
21	SDG681PS	545	681	600	750	2806A-E18TAG3	ECU	6L	145/183	18.130	74	5120*1380*2350	6020

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO3046 and BS5514;

3.All ratings are under condition:50Hz,1800r/min,480V,lagging power factor(0.8),3-phase, 4-wire(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability

OPEN TYPE DIESEL GENERATING SET POWERED BY PERKINS

50
Hz

NO.	Genset Model	Output				Diesel Gensets Specification Data Specification						Dimension&Weight	
		Prime (kW)	Prime (kva)	Standby (kW)	Standby (kva)	Engine Model	Gov.	Cyl.	Bore/Stroke (mm/mm)	Displace (L)	Cons.(L/H)	LxWxH (mm)	Weight (kg)
1	SDG9P	7.3	9.1	8	10	403D-11G	M	3L	77/81	1.131	2	1130x500x720	320
2	SDG13P	10	12.5	11	14	403D-15G	M	3L	84/90	1.496	5.5	1230x500x720	360
3	SDG20P	16	20	18	23	404D-22G	M	4L	84/100	2.216	4	1330x500x750	450
4	SDG26P	20	25	22	28	404D-22TG	E	4L	84/100	2.216	5	1360x530x750	620
5	SDG30P	24	30	26	33	1103A-33G	M	3L	105/127	3.300	5.4	1490x580x1090	636
6	SDG45P	36	45	40	50	1103A-33TG1	M	3L	105/127	3.300	8.2	1600x680x1090	720
7	SDG60P	48	60	53	55	1103A-33TG2	M	3L	105/127	3.300	10.4	1720x660x1100	757
8	SDG65P	52	65	57	71	1104A-44TG1	M	4L	105/127	4.400	11.2	1900x700x1200	860
9	SDG80P	64	80	70	88	1104A-44TG2	M	4L	105/127	4.400	14	1900x700x1200	875
10	SDG100P	80	100	88	110	1104C-44TAG2	E	4L	105/127	4.400	17.1	1980x700x1200	918
11	SDG136P	108	136	119	149	1006TAG	E	6L	100/127	5.990	24.1	2140x780x1290	1100
12	SDG150P	120	150	132	165	1006TAG2	E	6L	100/127	5.990	31	2170x780x1290	1275
13	SDG185P	144	180	158	198	1106C-E86TAG4	ECM	6L	105/127	6.600	31	2280x780x1320	1310
14	SDG200P	160	200	176	220	1306C-E87TAG3	ECM	6L	116.6/135.9	8.700	37	2490x915x1620	1480
15	SDG230P	184	230	202	253	1306C-E87TAG4	ECM	6L	116.6/135.9	8.700	39	2600x950x1620	1584
16	SDG250P	200	250	220	275	1306C-E87TAG6	ECM	6L	116.6/135.9	8.700	43	2600x950x1620	1590
17	SDG350P	280	350	308	385	2206A-E13TAG2	ECM	6L	130/157	12.500	54	3100x1120x1725	2440
18	SDG400P	320	400	352	440	2206A-E13TAG3	ECM	6L	130/157	12.500	62	3100x1120x1720	2440
19	SDG460P	368	460	400	500	2506A-E15TAG1	ECM	6L	135/171	15.200	72	3280x1150x1918	3120
20	SDG500P	400	500	440	550	2506A-E15TAG2	ECM	6L	137/171	15.200	76	3300x1150x1918	3190
21	SDG600P	480	600	528	660	2806A-E18TAG1A	ECM	6L	145/183	18.130	90	3300x1500x1900	4400
22	SDG650P	520	650	572	715	2806A-E18TAG2	ECM	6L	145/183	18.130	97	3650x1500x1900	4690
23	SDG750P	600	750	660	825	4006-23TAG2A	E	6L	160/190	22.921	122	4200x1720x2210	4900
24	SDG800P	640	800	704	880	4006-23TAG3A	E	6L	160/190	22.921	130	4250x1720x2210	5120
25	SDG900P	720	900	800	1000	4008TAG1A	E	8L	160/190	30.561	143	4950x2050x2460	6900
26	SDG1022P	818	1022	899	1124	4008TAG2A	E	8L	160/190	30.561	163	5100x2050x2460	7025
27	SDG1250P	1000	1250	1100	1375	4012-46TWG2A	E	12V	160/190	45.842	196	4880x1990x2350	8980
28	SDG1364P	1091	1364	1200	1500	4012-46TWG3A	E	12V	160/190	45.842	212	4880x1990x2506	9630
29	SDG1505P	1204	1505	1324	1655	4012-46TAG2A	E	12V	160/190	45.842	237	5150x2112x2560	10180
30	SDG1705P	1364	1705	1500	1875	4012-46TAG3A	E	12V	160/190	45.842	275	5340x2180x2925	10740
31	SDG1850P	1480	1850	1628	2035	4016TAG1A	E	16V	160/190	61.123	277	6630x2780x3360	12300
32	SDG2058P	1646	2058	1811	2264	4016TAG2A	E	16V	160/190	61.123	316	6800x2780x3360	12500
33	SDG2250P	1800	2250	1980	2475	4016-61TRG3A	E	16V	160/190	61.123	346	6830x2780x3360	12800

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO5046 and BS5514;

3.All ratings are under condition:50Hz,1500/min,400V,lagging power factor(0.8),3-phase, 4-wire.(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability

Perkins is one of the three largest engine manufacturer in the world with more than 4,000 business outlets, provide power to 5000 different applications from more than 1000 equipment manufacturers with advanced technology. Perkins 4-2,000 KW diesel engines are widely used in Industry, construction, agriculture, marine and power generation equipment market with its performance, quality and reliability.

This series provides qualified and efficient service to customer, through SUMEC and Perkins worldwide service network.

60
Hz

NO.	Genset Model	Output				Diesel Gensets Specification Data Specification						Dimension&Weight	
		Prime (kW)	Prime (kva)	Standby (kW)	Standby (kva)	Engine Model	Gov.	Cyl.	Bore/Stroke (mm/mm)	Displace (L)	Cons.(L/H)	LxWxH (mm)	Weight (kg)
1	SDG11P	9	11	10	12	403D-11G	M	3L	77/81	1.131	2	1130x500x720	320
2	SDG16P	13	16	14	18	403D-15G	M	3L	84/90	1.496	5.5	1230x500x720	360
3	SDG24P	19	24	21	26	404D-22G	M	4L	84/100	2.216	4	1330x500x750	450
4	SDG32P	25.5	32	28	35	404D-22TG	E	4L	84/100	2.216	5	1360x530x750	620
5	SDG35P	28	35	31	39	1103A-33G	M	3L	105/127	3.300	5.4	1490x580x1090	636
6	SDG53P	43	53	47	58	1103A-33TG1	M	3L	105/127	3.300	8.2	1600x680x1090	720
7	SDG68P	55	68	60	75	1103A-33TG2	M	3L	105/127	3.300	10.4	1720x660x1100	757
8	SDG76P	61	76	67	84	1104A-44TG1	M	4L	105/127	4.400	11.2	1900x700x1200	860
9	SDG91P	73	91	80	100	1104A-44TG2	M	4L	105/127	4.400	14	1900x700x1200	875
10	SDG112P	90	91	100	100	1104C-44TAG2	M	4L	105/127	4.400	17.1	1980x700x1200	918
11	SDG135P	108	135	120	171	1106A-70TAG1	M	6L	105/127	7.000	24.1	2140x780x1290	1100
12	SDG150P	120	150	132	178	1106A-70TAG2	M	6L	105/127	7.000	31	2140x780x1290	1100
13	SDG180P	144	170	158	190	1106A-70TAG3	M	6L	105/127	7.000	37	2140x780x1290	1100
14	SDG230P	185	230	202	253	1306C-E87TAG3	ECU	6L	116.6/135.9	8.700	39	2600x950x1620	1584
15	SDG245P	196	245	216	270	1306C-E87TAG4	ECU	6L	116.6/135.9	8.700	43	2600x950x1620	1590
16	SDG400P	320	400	350	438	2206A-E13TAG5	ECU	6L	130/157	12.500	62	3100x1120x1725	2440
17	SDG438P	350	438	385	480	2206A-E13TAG6	ECU	6L	130/157	12.500	70	3100x1120x1725	2440
18	SDG500P	400	500	440	550	2506D-E15TAG1	ECU	6L	135/171	15.200	72	3280x1150x1918	3120
19	SDG569P	455	569	500	624	2506C-E15TAG3	ECU	6L	135/171	15.200	80	3280x1150x1918	3190
20	SDG625P	500	625	550	687	2806A-E18TAG1A	ECU	6L	145/183	18.130	90	3300x1500x1918	4400
21	SDG681P	545	681	600	750	2806A-E18TAG3	ECU	6L	145/183	18.130	97	3650x1500x1900	4690
22	SDG750P	600	750	660	825	4006-23TAG2A	E	6L	160/190	22.921	122	4250x1720x2210	4900
23	SDG846P	676	846	745	931	4008TAG	E	8L	160/190	30.561	163	4950x2050x2460	6900
24	SDG900P	720	900	800	1000	4008TAG1A	E	8L	160/190	30.561	163	4950x2050x2460	6900
25	SDG995P	796	995	878	1097	4008TAG2A	E	8L	160/190	30.561	163	4950x2050x2460	7025
26	SDG1253P	1002	1253	1102	1378	4012-46TWG2A	E	12V	160/190	45.842	196	4880x1990x2350	8980
27	SDG1364P	1091	1364	1200	1500	4012-46TWG3A	E	12V	160/190	45.842	212	4880x1990x2506	9630
28	SDG1510P	1208	1510	1329	1669	4012-46TAG2A	E	12V	160/190	45.842	237	5150x2112x2560	10180
29	SDG1710P	1368	1710	1500	1880	4012-46TAG3A	E	12V	160/190	45.842	275	5300x2112x2925	10740

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO5046 and BS5514;

3.All ratings are under condition:50Hz,1800/min,480V,lagging power factor(0.8),3-phase, 4-wire.(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability

OPEN TYPE DIESEL GENERATING SET POWERED BY MTU



SOUNDPROOF DIESEL GENERATING SET

MTU, as the diesel engine propulsion system Division of Benz-Chieler, is the world's top manufacturer of overloaded diesel engines. Its products are widely used in railway vehicles, off-road vehicles, marine vessels and power plants, including non-stop backup power plant.

The main products of MTU is overload diesel engines with the power range from 35Kw to 7400Kw, gas turbine engines, electronic management system of generators, electronic monitoring system and overload transmission. These products are manufactured with the quality standard of MTU and can provide high grade and efficient service with worldwide service network of SUMEC and MTU.

50
Hz

NO.	Genset Model	Output				Diesel Gensets Specification Date Specification						Dimension&Weight	
		Prime (KW)	Prime (kVA)	Standby (KW)	Standby (kVA)	Engine Model	Gov.	Cyl.	Bore/Stroke (mmmm)	Displace (L)	Cons.(L/H)	LxWxH (mm)	Weight (kg)
1	SDG250M	200	250	220	275	6R1600G10F	E	6L	122/150	10.5	38.76462387	2800*1150*1650	2500
2	SDG280M	224	280	248	310	6R1600G20F	E	6L	122/150	10.5	55.73953488	2900*1150*1650	2620
3	SDG350M	280	350	308	385	8V1600G10F	E	8V	122/150	14	70.65116279	2980*1350*1760	3450
4	SDG380M	304	380	336	420	8V1600G20F	E	8V	122/150	14	68.57674419	3040*1350*1760	3580
5	SDG440M	352	440	387	484	10V1600G10F	E	10V	122/150	17.5	80.63255814	3220*1350*1850	3880
6	SDG500M	400	500	440	550	10V1600G20F	E	10V	122/150	17.5	88.8372093	3320*1350*1850	4000
7	SDG580M	464	580	510	638	12V1600G10F	E	12V	122/150	21	106.2883721	3500*1580*1850	4350
8	SDG650M	520	650	572	715	12V1600G20F	E	12V	122/150	21	116.0930233	3930*1580*2080	4890
9	SDG650M	520	650	572	715	12V2000G25	E	12V	130/150	23.88	124.5581395	4500*2100*2080	4900
10	SDG800M	640	800	704	880	12V2000G65	E	12V	130/150	23.88	151.0697674	4500*2100*2080	5350
11	SDG938M	750	938	825	1031	16V2000G25	E	16V	130/150	31.84	172.6744186	4500*2100*2080	6210
12	SDG1025M	820	1025	902	1128	16V2000G65	E	16V	130/150	31.84	186.8837209	4500*2100*2080	6580
13	SDG1135M	908	1135	1000	1250	18V2000G65	E	18V	130/150	35.82	211.1627907	4600*2100*2300	7090
14	SDG1250M	1000	1250	1100	1375	12V4000G21R	E	12V	170/210	57.2	226.744186	3960*1835*2260	7680
15	SDG1400M	1120	1400	1232	1540	12V4000G23R	E	12V	170/210	57.2	272.0930233	3960*1835*2260	11760
16	SDG1650M	1320	1650	1452	1815	12V4000G23	E	12V	170/210	57.2	299.3023256	3960*1835*2260	11760
17	SDG1875M	1500	1875	1650	2063	12V4000G63	E	12V	170/210	57.2	338.372093	3980*1845*2270	12035
18	SDG2063M	1650	2063	1815	2269	16V4000G23	E	16V	170/210	76.3	374.127907	4790*1845*2270	12560
19	SDG2275M	1820	2275	2002	2503	16V4000G63	E	16V	170/210	76.3	408.4418605	5450*1845*2560	13400
20	SDG2500M	2000	2500	2200	2750	20V4000G23	E	20V	170/210	95.4	462.7906977	5650*1900*2650	15890
21	SDG2750M	2200	2750	2420	3025	20V4000G63	E	20V	170/210	95.4	503.9534884	5700*1950*2700	16400
22	SDG3000M	2400	3000	2640	3300	20V4000G63L	E	20V	170/210	95.4	549.7674419	5750*1980*2750	16910

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO3046 and BS5514;

3.All ratings are under condition:50Hz,1500r/min,400V,legging power factor(0.8),3-phase, 4-wire(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability

50
Hz

NO.	Genset Model	Output				Diesel Gensets Specification Date Specification						Dimension	
		Prime (KW)	Prime (kVA)	Standby (KW)	Standby (kVA)	Engine Model	Gov.	Cyl.	Bore/Stroke (mmmm)	Displace (L)	Cons.(L/H)	LxWxH (mm)	
1	SDG250MS	200	250	220	275	6R1600G10F	E	6L	122/150	10.5	38.76462387		
2	SDG280MS	224	280	248	310	6R1600G20F	E	6L	122/150	10.5	55.73953488		
3	SDG350MS	280	350	308	385	8V1600G10F	E	8V	122/150	14	70.65116279		
4	SDG380MS	304	380	336	420	8V1600G20F	E	8V	122/150	14	68.57674419		
5	SDG440MS	352	440	387	484	10V1600G10F	E	10V	122/150	17.5	80.63255814		
6	SDG500MS	400	500	440	550	10V1600G20F	E	10V	122/150	17.5	88.8372093		
7	SDG580MS	464	580	510	638	12V1600G10F	E	12V	122/150	21	106.2883721		
8	SDG650MS	520	650	572	715	12V1600G20F	E	12V	122/150	21	116.0930233		
9	SDG650MS	520	650	572	715	12V2000G25	E	12V	130/150	23.88	124.5581395	6058*2438*2590	
10	SDG800MS	640	800	704	880	12V2000G65	E	12V	130/150	23.88	151.0697674	6058*2438*2590	
11	SDG938MS	750	938	825	1031	16V2000G25	E	16V	130/150	31.84	172.6744186	6058*2438*2590	
12	SDG1025MS	820	1025	902	1128	16V2000G65	E	16V	130/150	31.84	186.8837209	6058*2438*2590	
13	SDG1135MS	908	1135	1000	1250	18V2000G65	E	18V	130/150	35.82	211.1627907	12192*2438*2890	
14	SDG1250MS	1000	1250	1100	1375	12V4000G21R	E	12V	170/210	57.2	226.744186	12192*2438*2890	
15	SDG1400MS	1120	1400	1232	1540	12V4000G23R	E	12V	170/210	57.2	272.0930233	12192*2438*2890	
16	SDG1650MS	1320	1650	1452	1815	12V4000G23	E	12V	170/210	57.2	299.3023256	12192*2438*2890	
17	SDG1875MS	1500	1875	1650	2063	12V4000G63	E	12V	170/210	57.2	338.372093	12192*2438*2890	
18	SDG2063MS	1650	2063	1815	2269	16V4000G23	E	16V	170/210	76.3	374.127907	12192*2438*2890	
19	SDG2275MS	1820	2275	2002	2503	16V4000G63	E	16V	170/210	76.3	408.4418605	12192*2438*2890	
20	SDG2500MS	2000	2500	2200	2750	20V4000G23	E	20V	170/210	95.4	462.7906977		
21	SDG2750MS	2200	2750	2420	3025	20V4000G63	E	20V	170/210	95.4	503.9534884		
22	SDG3000MS	2400	3000	2640	3300	20V4000G63L	E	20V	170/210	95.4	549.7674419		

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO3046 and BS5514;

3.All ratings are under condition:50Hz,1800r/min,480V,legging power factor(0.8),3-phase, 4-wire(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability

SOUNDPROOF DIESEL GENERATING SET POWERED BY CUMMINS



NO.	Genset Model	Output				Diesel Gensets Specification Data Specification							Dimension&Weight	
		Prime (KW)	Prime (kVA)	Standby (KW)	Standby (kVA)	Engine Model	Gov.	Cyl.	Bore/Stroke (mmmm)	Displace (L)	Cons.(L/H)	Noise Level (dB(A)@7m)	LxWxH (mm)	Weight (kg)
1	SDG25DCS	20	25	22	28	4B3.9-G1	M	4L	102/120	3.9	5.2	71	2330*1080*1550	1200
2	SDG40DCS	32	40	35	44	4BT3.9-G1	E	4L	102/120	3.9	7.3	71.8	2330*1080*1550	1310
3	SDG55DCS	44	55	48	60	4BTA3.9-G2	M	4L	102/120	3.9	10	72	2330*1080*1550	1350
4	SDG100DCS	80	100	88	110	6BTS.9-G1	E	4L	102/120	5.9	16.1	73.5	2920*1140*1600	1480
5	SDG110DCS	96	120	106	132	6BTA5.9-G2	E	4L	102/120	5.9	21.1	74	2920*1140*1600	1480
6	SDG135DCS	108	135	120	150	6BTA5.9-G2	M	6L	102/120	5.9	23	74.6	2920*1140*1600	1480
7	SDG180DCS	144	180	158	198	6CTA8.3-G2	E	6L	114/135	8.3	31	74.8	3520*1330*1850	2350
8	SDG200DCS	160	200	176	220	6CTA8.3-G2	E	6L	114/135	8.3	34	75.3	3520*1330*1850	2490
9	SDG250DCS	200	250	220	275	6LTA8.9-G2	E	6L	114/145	8.9	39	76.6	3520*1330*1850	2990
10	SDG300CCS	220	275	242	303	NTA855-G1A	E	6L	140/152	14	47	77.6	4820*1380*2350	3600
11	SDG325CCS	250	313	275	344	MTAA11-G3	E	6L	125/147	10.8	44.8	78.2	4820*1380*2350	3650
12	SDG350CCS	275	344	303	379	NTA855-G2A	E	6L	140/152	14	58	78.8	4820*1380*2350	3700
13	SDG380CCS	300	375	330	413	NTA855-G7	E	6L	140/152	14	79.4	79.4	4820*1380*2350	4950
14	SDG450CCS	360	450	396	495	KTA19-G3	E	6L	159/159	18.9	73	82.4	5120*1830*2350	4980
15	SDG500CCS	400	500	440	550	KTA19-G4	E	6L	159/159	18.9	82	82.8	5120*1830*2350	5020
16	SDG550CCS	420	525	462	578	KTA19-G5	E	6L	159/159	18.9	91	83	5120*1830*2350	5750
17	SDG625CCS	500	625	550	688	KTA19-G6A	E	6L	159/159	37.8	100	83.3	5120*1830*2350	5750

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO3046 and B85514;

3.All ratings are under condition:50Hz,1500r/min,400V,lagging power factor(0.8),3-phase, 4-wire(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability



	Genset Model	Output				Diesel Gensets Specification Data Specification						Dimension&Weight	
		Prime (KW)	Prime (kVA)	Standby (KW)	Standby (kVA)	Engine Model	Gov.	Cyl.	Bore/Stroke (mmmm)	Displace (L)	Noise Level (dB(A)@7m)	LxWxH (mm)	Weight (kg)
1	SDG28DCS	23	28	25	31	4B3.9-G2	E	4L	102/120	3.9	71	2330*1080*1550	1200
2	SDG43DCS	35	43	38	48	4BT3.9-G2	E	4L	102/120	3.9	71	2330*1080*1550	1310
3	SDG68DCS	55	68	60	75	4BTA3.9-G2	E	4L	102/120	3.9	71	2330*1080*1550	1350
4	SDG114DCS	91	114	100	125	6BTS.9-G2	E	4L	102/120	5.9	71.5	2920*1140*1600	1480
5	SDG138DCS	110	138	121	152	6BTA5.9-G2	E	6L	102/120	5.9	71.5	2920*1140*1600	1480
6	SDG199DCS	160	200	176	220	6CTA8.3-G2	E	6L	114/135	8.3	72	3530*1340*1850	2350
7	SDG227DCS	182	227	200	250	6CTA8.3-G2	E	6L	114/135	8.3	72	3530*1340*1850	2490
8	SDG275DCS	220	275	275	303	6LTA8.9-G2	E	6L	114/145	8.9	72	3530*1340*1850	2990
9	SDG275CCS	220	275	275	303	NTA855-G1	E	6L	140/152	14	72.5	4280*1420*2150	3600
10	SDG350CCS	280	350	308	385	NTA855-G1B	E	6L	140/152	14	72.5	4280*1420*2150	3650
11	SDG398CCS	320	400	352	440	NTA855-G3	E	6L	140/152	14	72.5	4280*1420*2150	3700
12	SDG438CCS	350	438	385	481	KTA19-G2	E	6L	159/159	18.9	73	4580*1620*2340	4950
13	SDG513CCS	410	513	451	565	KTA19-G3	E	6L	159/159	18.9	73	4580*1620*2340	4950
14	SDG563CCS	450	563	500	620	KTA19-G4	E	6L	159/159	18.9	73	4580*1620*2341	4950
15	SDG625CCS	500	625	550	688	KTA19-G5	E	6L	159/159	18.9	74	4680*1620*2390	5020

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO3046 and B85514;

3.All ratings are under condition:60Hz,1800r/min,480V,lagging power factor(0.8),3-phase, 4-wire(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability

OPEN TYPE DIESEL GENERATING SET POWERED BY CUMMINS

50
Hz

NO.	Genset Model	Output				Diesel Gensets Specification Data Specification							Dimension&Weight		
		Prime (KW)	Prime (KVA)	Standby (KW)	Standby (KVA)	Engine Model	Gov.	Cyl.	Bore/Stroke (mm/mm)	Displace (L)	Cons.(L/H)		LxWxH (mm)	Weight (kg)	
1	SDG25DC	20	25	22	28	4BT3.9-G1	M	4L	102/120	3.9	5.2		1650x720x1440	700	
2	SDG40DC	32	40	35	44	4BT3.9-G1	E	4L	102/120	3.9	7.3		1650x720x1440	790	
3	SDG55DC	44	55	48	60	4BT3.9-G2	M	4L	102/120	3.9	10		1750x820x1350	890	
4	SDG100DC	80	100	88	110	6BT5.9-G1	E	4L	102/120	5.9	16.1		2300x850x1500	1000	
5	SDG120DC	96	120	106	132	6BT5.9-G2	E	4L	102/120	5.9	21.1		2300x850x1500	1000	
6	SDG135DC	108	135	120	150	6BTA5.9-G2	M	6L	102/120	5.9	23		2450x850x1500	1200	
7	SDG180DC	144	180	158	198	6CTA8.3-G2	E	6L	114/135	8.3	31		2400x810x1500	1600	
8	SDG200DC	160	200	176	220	6CTA8.3-G2	E	6L	114/135	8.3	34		2470x960x1500	1850	
9	SDG250DC	200	250	220	275	6LTA8.9-G2	E	6L	114/145	8.9	39		2750x1120x1550	2000	
10	SDG275DC	220	275	242	303	NTA855-G1A	E	6L	140/152	14	47		2910x1120x1740	2100	
11	SDG313DC	250	313	275	344	NTA855-G1A	E	6L	125/147	10.8	44.8		2990x1150x1570	2200	
12	SDG344DC	275	344	303	379	NTA855-G2A	E	6L	140/152	14	58		2990x1150x1710	2650	
13	SDG375DC	300	375	330	413	NTA855-G7	E	6L	140/152	14	74.4		3150x1150x1750	2800	
14	SDG450DC	360	450	396	495	KTA19-G3	E	6L	159/159	18.9	73		3250x1270x1950	3500	
15	SDG500DC	400	500	440	550	KTA19-G4	E	6L	159/159	18.9	82		3250x1270x1950	3800	
16	SDG525DC	420	525	462	578	KTA19-G5	E	6L	159/159	18.9	91		3540x1280x2000	4000	
17	SDG625DC	500	625	550	688	KTA19-G6A	E	6L	159/159	37.8	100		3700x1545x2000	4300	
18	SDG750DC	600	750	660	825	KTA38-G2	E	12V	159/159	38	128		4450x1600x2280	6850	
19	SDG800DC	640	800	704	880	KTA38-G2B	E	12V	159/159	37.8	132		4520x1600x2280	7100	
20	SDG910DC	728	910	800	1000	KTA38-G2A	E	12V	159/159	38	147		4520x1600x2280	7200	
21	SDG1000DC	800	1000	880	1100	KTA38-G5	E	12V	159/159	37.8	161		4650x1840x2380	7800	
22	SDG1125DC	900	1125	1000	1250	KTA38-G9	E	12V	159/159	37.5	196		4850x2000x2590	8500	
23	SDG1250DC	1000	1250	1100	1375	KTA50-G3	E	16V	159/159	50.3	199		5100x2070x2590	10000	
24	SDG1375DC	1100	1375	1210	1513	KTA50-G8	E	16V	159/159	50.3	218		5300x2210x2590	10550	
25	SDG1500DC	1200	1500	1320	1650	KTA50-G58	E	16V	159/159	50.3	238		5300x2210x2590	10550	
26	SDG500DC	400	500	440	550	QSK19-G8	E	6L	137/169	15	78.7		3250x1270x1950	3800	
27	SDG625DC	500	625	550	688	VTA28-G5	E	12V	140/152	28	104		3700x1545x2000	4300	
28	SDG750DC	600	750	660	825	VTA28-G6	E	12V	140/152	28	133		4450x1600x2280	6850	
29	SDG813DC	650	813	715	894	QSK23-G3	E	6L	170/170	23	121		4520x1600x2280	7100	
30	SDG900DC	720	900	800	1000	QST30-G3	E	12V	140/165	30.4	140		4520x1600x2280	7200	
31	SDG1000DC	800	1000	880	1100	QST30-G4	E	12V	140/165	30.4	151		4650x1840x2380	7800	
32	SDG1250DC	1000	1250	1100	1375	KTA50-G3	E	16V	159/159	50.3	199		4850x2000x2590	8500	
33	SDG1500DC	1200	1500	1320	1650	KTA50-G58	E	16V	159/159	50.3	238		5300x2210x2590	10550	
34	SDG1875DC	1500	1875	1650	2063	QSK60-G3	E	16V	159/190	60.2	270		6000x2400x2800	15000	
35	SDG2080DC	1664	2080	1830	2288	QSK60-G4	E	16V	159/190	60.2	291		6000x2400x2800	15210	

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO3046 and BS5514;

3.All ratings are under condition:50Hz,1500/min,400V,lagging power factor(0.8),3-phase, 4-wire(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability



Cummins has distributors in 137 countries and regions, 5000 service networks spread all over the world. As largest foreign investor of Chinese engine manufacturing industry,Cummins own Chongqing Cummins facility(producing M,N and K series diesel engine) and Dongfeng Cummins facility(producing B,C and L series diesel engine).

This series provides qualified and efficient service to customer through SUMEC and Cummins worldwide service network.

60
Hz

NO.	Genset Model	Output				Diesel Gensets Specification Data Specification							Dimension&Weight		
		Prime (KW)	Prime (KVA)	Standby (KW)	Standby (KVA)	Engine Model	Gov.	Cyl.	Bore/Stroke (mm/mm)	Displace (L)			LxWxH (mm)	Weight (kg)	
1	SDG28DC	23	28	25	31	4BT3.9-G2	E	4L	102/120	3.9			1650x720x1440	700	
2	SDG43DC	35	43	38	48	4BT3.9-G2	E	4L	102/120	3.9			1650x720x1440	790	
3	SDG68DC	55	68	60	75	4BT3.9-G2	E	4L	102/120	3.9			1750x820x1350	890	
4	SDG114DC	91	114	100	125	6BT5.9-G2	E	4L	102/120	5.9			2300x850x1500	1000	
5	SDG138DC	110	138	121	152	6BTA5.9-G2	E	6L	102/120	5.9			2450x850x1500	1200	
6	SDG200DC	160	200	176	220	6CTA8.3-G2	E	6L	114/135	8.3			2400x810x1500	1600	
7	SDG227DC	182	227	200	250	6CTA8.3-G2	E	6L	114/135	8.3			2470x960x1500	1850	
8	SDG275DC	220	275	275	303	6LTA8.9-G2	E	6L	114/145	8.9			2750x1120x1550	2000	
9	SDG275DC	220	275	275	303	NTA855-G1	E	6L	140/152	14			2910x1120x1740	2100	
10	SDG350DC	280	350	308	385	NTA855-G1B	E	6L	140/152	14			2950x1150x1770	2200	
11	SDG400DC	320	400	352	440	NTA855-G3	E	6L	140/152	14			2990x1150x1710	2650	
12	SDG438DC	350	438	385	481	KTA19-G2	E	6L	159/159	18.9			3150x1150x1750	2800	
13	SDG513DC	410	513	451	565	KTA19-G3	E	6L	159/159	18.9			3250x1270x1950	3500	
14	SDG563DC	450	563	500	620	KTA19-G4	E	6L	159/159	18.9			3250x1270x1950	3800	
15	SDG625DC	500	625	550	688	KTA19-G5	E	6L	159/159	18.9			3540x1280x2000	4000	
16	SDG775DC	620	775	682	880	KT38-G	E	6L	159/159	37.8			3700x1545x2000	4300	
17	SDG925DC	740	925	814	1018	KTA38-G2	E	12V	159/159	38			4450x1600x2280	6850	
18	SDG1000DC	800	1000	880	1100	KTA38-G2A	E	12V	159/159	38			4520x1600x2280	7200	
19	SDG1125DC	900	1125	1000	1238	KTA38-G4	E	12V	159/159	37.8			4650x1840x2380	7800	
20	SDG1250DC	-	-	1100	1375	KTA38-G9	E	12V	159/159	37.5			4850x2000x2590	8500	
21	SDG1438DC	1150	1438	1265	1581	KTA50-G3	E	16V	159/159	50.3			5100x2070x2590	10000	
22	SDG1583DC	1250	1563	1500	1875	KTA50-G9	E	16V	159/159	50.3			5100x2070x2590	11000	

1.M:Mechanical speed governor,E:Electronic speed governor,ECU:Electronic Control Unit;

2.All ratings are in accordance to ISO8528,ISO3046 and BS5514;

3.All ratings are under condition:50Hz,1800/min,480V,lagging power factor(0.8),3-phase, 4-wire(For more information such as HV gensets,please consult technical department);

4.Technical data is subject to work test conditions and we reserve the right to amend spec. and info. without notice and without obligation or liability

LIGHTING TOWER

- Equipped with the SUMEC series diesel generators as generating power, the power quality is stable and reliable;
- Generator models, light pole models and lighting models can be equipped with, it is applicability.
- Diesel Generators can equip with SDG2500 series, SDG3500 series and SDG5000 series of open type or silent type generators, the power range is wide and the use of the environment is flexible.
- Pole height can equip with standard configuration of 2.7 m, 3.2 m, 4 m, 5.5 m type, and can be customized a variety of lengthened light pole according to specific customer use of the environment.



- Lighting standard configuration is the Philips series lights, a single set can be equipped with two or four lights, the power can choose 500W / or 1000W / according to the rated power of the generators.

- For the high-end configuration customers, it can use two 50W LED lighting. LED lighting is energy saving, longevity, low heat, strong vibration resistance. The energy-saving effect can be more than 70%; it can be adapted to any optional power segment unit, and can effectively develop the power output of the power supply.

- The chute-type motor can suppress harmonics effectively, low distortion rate, good lighting effects.

- The user-friendly design, simple structure, removable packaging, light poles can be lie down to place when it is not in use, easy to transport and storage.



- Lift system uses a pneumatic system, easy to use, beautiful appearance, safe and reliable.

- Electrical circuits' design of light poles and lighting systems is individually, it can be used alone or with the mains.

- Chassis design is firm, strong wind resistance.

- Equipped with large-diameter directional and universal casters, transportation is convenient.

- Removable telescopic arm increases the lighting car resistance to wind.



SDGSLT	
Generator set model	SDG5000SE
Rated Frequency(Hz)	50
Rated Voltage(V)	220
Rated Power(KW)	4.2
Max.Power(KW)	4.6
Fuel consumption(g/KW-h)	≤275.1
Fuel tank capacity(L)	16
Lamp power(W)-No. of lamp	1000-4
Tatal power of the lamps(W)	4000
Luminous flux(lm)	440000
Mast	3 stages lifting mast
Lift limiting of the mast(mm)	5500
Inclination	10 degrees
Windproof ability	6-8 grade

VERTICAL MAST ALLOWS:

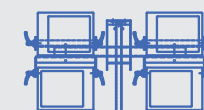
SINGLE MOVEMENT TO RAISE AND LOWER MAST IN SECONDS

EASIER TO ADJUST LIGHT DIRECTION

CONSIDERABLY LESS STRAIN ON CABLES

VERTICAL MAST REDUCES DRASTICALLY THE LIGHT TOWER DIMENSIONS

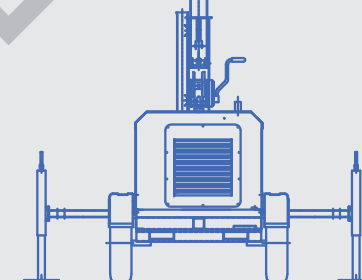
BIG SAVING IN TERMS OF TRANSPORT COSTS FOR MOVING THE LIGHT TOWERS



8 mt.



2,2 mt.



LIGHTING TOWER



Best illuminating Solution!

SDG9PLT lighting tower consists of a generator set, a telescopic mast, a lighting kit and a trailer. The generator set is featured by large access door for convenient maintenance and large fuel tank for long time work. The telescopic mast can reach 8.5 meters' height at maximum with strong wind resistant performance, and can rotate 360 degree, allowing illumination in all directions. And the trailer makes the machine easy to move. The machine is designed compact and easy to use. It can meet requirements of various applications.



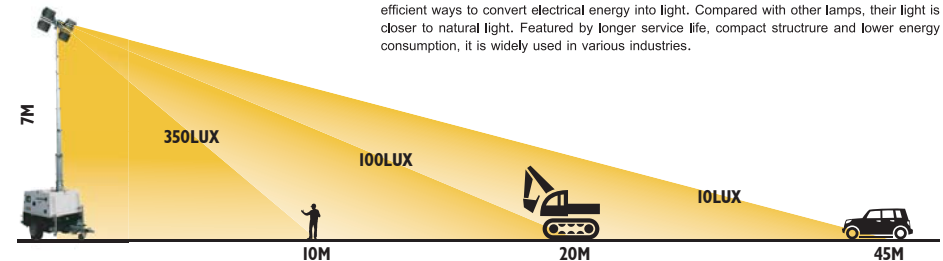
Model	SDG80LTF	SDG80LTP
Frequency	50Hz	50Hz
Model	380 (FIRMAN Engine)	PERKINS, 403D-11G or other
Type	Diesel	Diesel
Number of cylinders	3	3
Power output	14.96kw	13.32kw
Displacement	1.318L	1.131L
Cooling	Water cooled	Water cooled
Engine shut protection	Low oil pressure	Low oil pressure
Engine speed	1500rpm	1500rpm
Manual telescopic mast with safety block, carrying four metal halide spotlights		
Watts per lamp	1000	1000
Lumens per lamp	90000	90000
Total watts	4000	4000
Total lumens	360000	360000
Manual mast rotation	360°	360°
Raise mast to height	Manual	Manual
Lower mast to travel position	Manual	Manual
Working temperature	-20 °C to 50 °C	-20 °C to 50 °C
Type	Diesel	Diesel
Fuel tank capacity	100L	100L
Fuel consumption	1.47L/h	1.47L/h
Running time for full tank	68hrs	68hrs
Total Voltage	230V	230V
Sockets 230V	1x16amps	1x16amps
Maximum output	7.4kVA	7.4kVA
Number of axles	1	1
Tire size	13	13
Hitch	Combo - 2" ball hitch & 2.5" pintle ring	
Max. height of tower	9.14meter	9.14meter
Length with mast stowed	4.32meter	4.32meter
Width	0.9meter	0.9meter
Width with outriggers	2.44meter	2.44meter
Dry weight	740kg	740kg

Stable Performance and Safety

The generator set of the lighting tower is powered by Perkins engine and coupled with Stamford alternator. The superior performance of the generator set ensures stable and reliable lighting. The audible warning system equipped with the lighting tower will be activated when the mast is being raised or lowered so as to make the operators and people nearby keep in safety distance.

Energy-efficient Metal halide Lamps

Metal halide lamp can provide enough brightness with little energy, which is one of the most efficient ways to convert electrical energy into light. Compared with other lamps, their light is closer to natural light. Featured by longer service life, compact structure and lower energy consumption, it is widely used in various industries.



LIGHTING TOWER



- 9m mast , extends to full height and provides 360,000 lumens for all night working
- Mast rotates 360°providing light wherever it's required, with four stabilizing legs for safe working on uneven ground
- Heavy-duty and road-towable for maximum transportability, with integrated road signal light
- Soundproof generating set
- Fork pockets and single point lift for easy loading and off-loading
- Large, removable doors and external fuel filling point provide good service and refueling access

Genset	SDG9FS-LT	SDG13FS-LT
Maximum power(LTP)(KW)	8	11
Continuous power(COP)(KW)	7.2	10
Rating voltage(V)	230	230
Frequency/Speed/cosφ(Hz/rpm)	50/1500/1	50/1500/1
Phase	1	1
Rating current(A)	31.3	43
Sound Level(4m)dB(A)	76	76
Dry weight(kg)	1120	1200
Engine		
Engine manufacturer	FIRMAN	FIRMAN
Model	FD380DY	FD480DY
Cylinder No.	3	4
Bore*Stroke(mm)	80*90	80*90
Compression ratio	18:1	18:1
Displacement(L)	1.357	1.809
Coolant capacity	4	6.5
Light mast&Light		
Total height(m)	9	9
Rotary table	360°	360°
Power&Qty	1000W*4	1000W*4
Luminous Flux(Lm)	110000	110000
Lamp voltage(V)	283	283
Protection grade	IP65	IP65
Avg .Life(Hr)	3000	3000
Wind-resistance	8 grade (20m/s)	8 grade (20m/s)

WELDER GENERATOR



Specification: DONGFENG CUMMINS 4BT3.9G1 ENGINE + FIRMAN ALTERNATOR

- New design concept: welding machine joint with generator—smaller, bigger current and more stably.
- FIRMAN welder is SMAW(shielded metal arc welding)machine, with high-performance, which can also joint special welder to satisfy different welding environment(gas shielded welding etc.).
- FIRMAN welding machine max current is 400A, which can be up to 500A max as request.
- Imported internal plastic terminal block can meet higher vibration, and maintain more easier.
- FIRMAN welding machine equipped with standard 40KVA(32KW) generator, which can be used for generating and welding. While welding use, it also can load lamp and small electric tool too and output 32kw without welding use.
- FIRMAN welding machine can be driven by 1500rpm power, which is less fuel consumption, longer lifetime, higher safety, lower noise than 3000rpm machine.
- Module In control cabinet is more optimal design, more reliable performance, smaller space and easier to operating.
- Swing-up door design is easy to maintenance.



FIRMAN welding machine can be installed on the trailer, which performance is as follows:

- Underframe of trailer is equipped with torsion bar damper, which can reach good damping effect while machine running.
- Lower underpan can reach higher stability.
- The optional cable hoist and industrial plug is easy to use at site.
- The optional hydraulic type or manual supporter is more stable while stopping use
- Conformance to export standard.

No.	Genset Model	Output				Diesel Gensets Specification and Data Sheet						Dimension & Weight	
		Prime (KW)	Prime (kVA)	Standby (KW)	Standby (kVA)	Engine Model	Gov.	Cyl.	Bore/Stroke (mm/mm)	Displace	Fuel Cons. (g/kwh)/(L/h)	LxWxH (mm)	Weight (kg)
1	SDW400DCT	32	40	35	44	4BT3.9-G1	M	4	102 x 120	3.9	252/2.6	3220*1340*2040	1350

ALTERNATOR



What advantage of alternator used on FIRMAN Diesel Generating Set?

- 4 pole, brushless, self-excited, IP21 or IP23 (can supply higher IP 45 or IP54 on request), Insulation class H, temperature resistance 180°C. Providing enough guarantee for FIRMAN diesel Genet running in harsh environment
- The windings have a 2/3 pitch in order to reduce the harmonic content by elimination of 3rd order current harmonics reduce overall voltage distortion levels
- Rotors are balance tested before installation. The damper cage can help reduce voltage distortion and additional heat under non-linear load condition;
- The power produced by exciter supplies to the main rotor through a three phase full-wave rectifier. This rectifier is protected by a surge suppressor and prevent the impact damage caused by wrong phase under parallel condition and short circuit condition
- The voltage accuracy is +1% in static condition with any power factor and with speed variation between -5% and +30% with reference to the rated speed;
- Radio Interference Coefficient TIF <50, Radio harmonic coefficient THF <2%. Brushless device and high quality AVR can ensure superior low radio interference.

FIRMAN®

10.75KVA-2250KVA

FIRMAN have been awarded Certificate for ISO9001-2000. FIRMAN alternator have meet the GB755, IEC34, BS5000, VDE0530, NEMA, MG1-22, C22.2-100, CSA, AS1359 standards.

Product developed upon digestion and absorption of introduced technologies from European company. Co-develop with world's leading companies from western country follow optimized engineering development process for reliability research and development. In addition, FIRMAN generators are exported far to USA, Canada, South-East of Asia, Europe, The Middle East, Africa, etc.



7.8KVA-2500KVA

MECCALTE S.P.A is headquartered in Italy, from its inception in 1947, has been in the generator field 60 years of experience, is the world's four leading generator brands. In the generator industry has been among the world leading level, the company has always focused on generating technology implementation and development, manufacturing and application. The product has CE and CSA certificate. Production base locate in the UK, India and China. Marine generators have passed the British Lloyd's (Lloyds), Det Norske Veritas (DNV), the French classification society (Bureau Veritas) American Bureau of Shipping (ABS) and the Italian classification society (RINA) recognition.

STAMFORD®

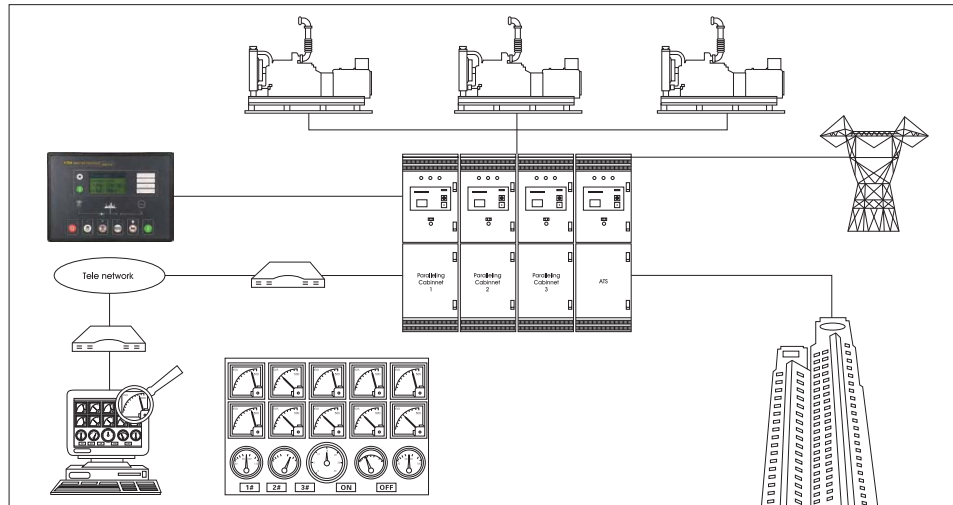
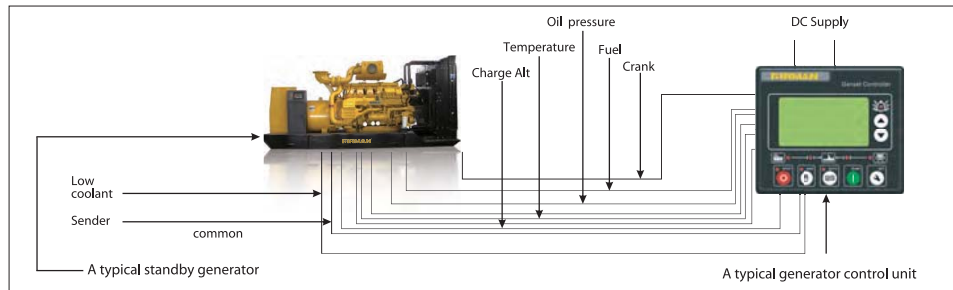
7.5KVA-2200KVA

Stamford AC 4 pole 12.5KVA-2200KVA generator share more than 30% of the world's market. Manufactories locate in the United Kingdom, India, the United States, Indonesia and Wuxi in China. Stamford AC generator is the international standard ISO9001 requirements and it also completed by a variety of internationally recognized standard.



ADVANCED INTELLIGENT CONTROL SYSTEM

FI MAN series genset controllers integrate digitization, intelligent automation and network technology which are used for genset automation and monitor control system of single unit to achieve automatic start stop, data measurement, alarm protection and three remote (remote control, remote measuring and remote communication). It fits with CD display, optional languages interface (Chinese, English, Spanish and Russian), and it is reliable and easy to use. FI MAN series genset controllers adopt micro-processor technology with precision parameters measuring, fixed value adjustment, time setting and set value adjusting and etc. All parameters can be configured from front panel or through programmable interface (US to IN, S 2 adaptor is recommended) via PC. It can be widely used in all types of automatic genset control system with compact structure, advanced circuits, simple connections and high reliability.



Mainly used for main power and emergency power supply automatic switching, with self-starting up the diesel generator can compose automatic emergency power system, which can automatically switch the load from lighting, security, power supply, fire equipment to the generator.

An essential power supply facility for a hospital, banks, telecommunications, airports, stations, hotels, factories and fire equipment.

Model No.	Rated Current (A)	Max Generating Set Output (Prime) (KVA, 50HZ, 230V/400V)	Max Generating Set Output (Prime) (KVA, 60HZ, 254V/440V)
ATyS M3s-40A/4P	40	25.1	27.7
ATyS M3s-63A/4P	63	39.5	43.6
ATyS M3s-80A/4P	80	50.2	55.4
ATyS M3s-100A/4P	100	62.7	69.3
ATyS M3s-125A/4P	125	78.4	86.6
ATyS M3s-160A/4P	160	100.4	110.8
ATyS 3s-250A/4P	250	156.8	173.2
ATyS 3s-400A/4P	400	250.9	277.1
ATyS 3s-630A/4P	630	395.2	436.4
ATyS 3s-800A/4P	800	501.8	554.2
ATyS 3s-1000A/4P	1000	627.3	692.7
ATyS 3s-1250A/4P	1250	784.1	865.9
ATyS 3s-1600A/4P	1600	1003.6	1108.4
ATyS 3s-1800A/4P	1800	1129.1	1246.9
ATyS 3s-2000A/4P	2000	1254.5	1385.5
ATyS 3s-2500A/4P	2500	1568.2	1731.8
ATyS 3s-3200A/4P	3200	2007.3	2216.7



ATyS M

40 to 160 A

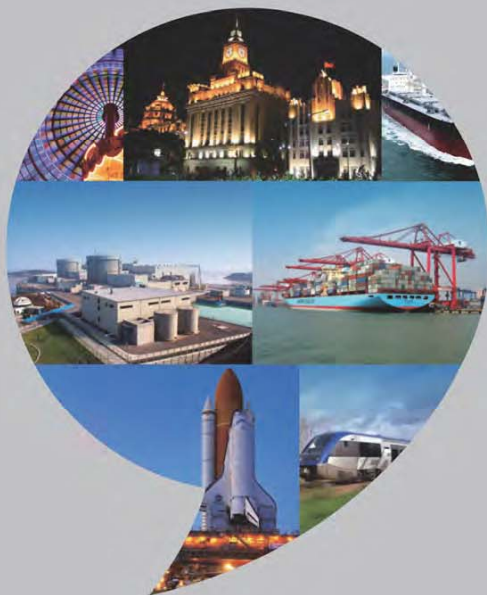
The ATyS M 3s (RTSE) is the remotecontrolled version, through volt free contacts from an external automatism, in the 3 positions (0, I and II), following a pulse logic or maintained contactor.



ATyS

125 to 3200 A

The ATyS 3 is the remotecontrolled version, through volt free contacts from an external automatism, in the 3 positions (0, I and II).



BETTER POWER



BETTER LIFE