Taizhou Haifeng Machinery Manufacturing Co., Ltd

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POWER GENERATOR

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OUR STORY

2001

Haifeng Machinery was established in a small workshop Taizhou city, China.
(Company start with 10,000 USD investment)

2005

Moved into a larger workplace with 2000 square-meter workshop.
(200,000 USD in sales revenue)

2008

Purchased a 70-acre land and built 20000 square-meter fatory with 10 workshops.
(1 million USD in sales revenue)

Today

We have 100+ employees, 40000 square-meter factory and 20 workshops.
15+ years of industry experience.
(20 million USD in sales revenue)

COMPANY PROFILE

Your satisfaction is our greatest pursuit.

Taizhou Haifeng Machinery Manufacturing Limited, founded in 2001, is a professional generator manufacturer located in Taizhou, China. In our 40000 square meter factory, we provide a wide selection of air cooled and water cooled diesel generators, with power ranges from 5 kilowatt to 4000 kilowatt. Taizhou Haifeng Machinery maintains strategic partnership with premium diesel engine and alternator manufacturers such as Cummins, Perkins, Stamford, Leroy Somer, Marathon,and KaiJieLi. Taizhou Haifeng can always supply customers with OEM power solutions for different use cases, including real estate, building, hotel, hospital, factory, railway, airport, seaport, bank, data center, telecom communication, mining plant, power plant, engineering and national grids. With export clients in more than 100 countries, Haifeng generator and professional service team have gained a great reputation all around the world. Haifeng Machinery always pays close attention to the research and development, innovation and maintenance of open type, silent type, and towable vehicle type generators. Our products have low noise, minimum vibration and great fuel economy. Haifeng Machinery also provides customized OEM solutions as per requirement from our customers.

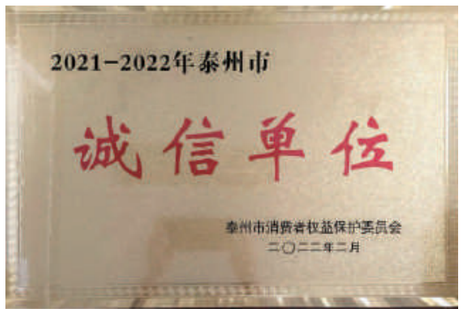
Our products are sold worldwide. Haifeng Machinery has won the unanimous recognition of consumers with satisfactory product quality and excellent after sales service. We sincerely welcome all friends and partners around the world to visit our company. We look forward to receiving your inquiries soon.

CERTIFICATE OF HONOR

China Light Machinery Industry Member Certificate

Taizhou Honor Brand

Taizhou Credible Enterprice Certificate



Taizhou Reliable Brand Certificate

ENTREPRISE
QUALIFICATION

CE Certificate

Chongqing Cummins OEM Certificate

Dongfeng Cummins OEM Certificate

Generator Patent Certificate

ISO Environment Management System Cerficate

ISO Health and Safety Management System Cerficate

ISO Quality Management System Certificate

Weichai OEM Certificate

Yuchai OEM Certificate

FACTORY

Haifeng factory campus is located in Taizhou City, Jiangsu Province. It covers a total area of 40837 square meters, which is one the largest diesel generator manufacturers in China.

Our factory has 20 workshops in total, which include laser cutting, welding, painting, assembling and testing for diesel generator production.

WORKSHOP
OVERVIEW

MANUFACTURING PROCESS

1 Engineering & Design

3 Cutting & Bending

2 Welding & Grinding

4 Painting & Sanding

5 Electronics Wiring

6 Genset Assembley

THE POWER
THAT MAKES IT POSSIBLE

Whether in the snow-capped mountains at the roof of the world or in the deepest mines of the desert, Haifeng power generators creates value for our customers with reliable power protection. Today, many Haifeng power generators are running relentlessly in all kind of harsh envirvonmental conditions around the world. Our generators are designed to provide customer with reliable power whenever and wherever you need it.

Emergency Power

Power Outage

Agriculture

Commercial Business

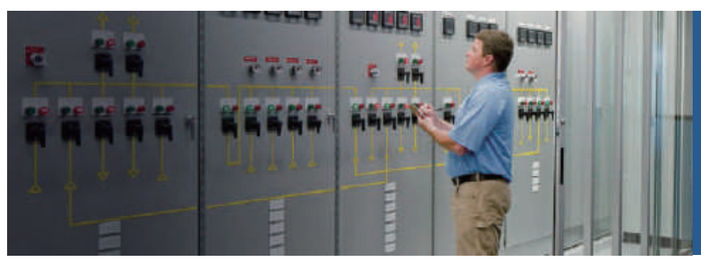
Construction

Health Care

Hospitality

Renewable Energy

Sports Event



Data Centers

APPLICATION

Client Story

POWERING SEA PORT GANTRY GATES WITH GENERATORS

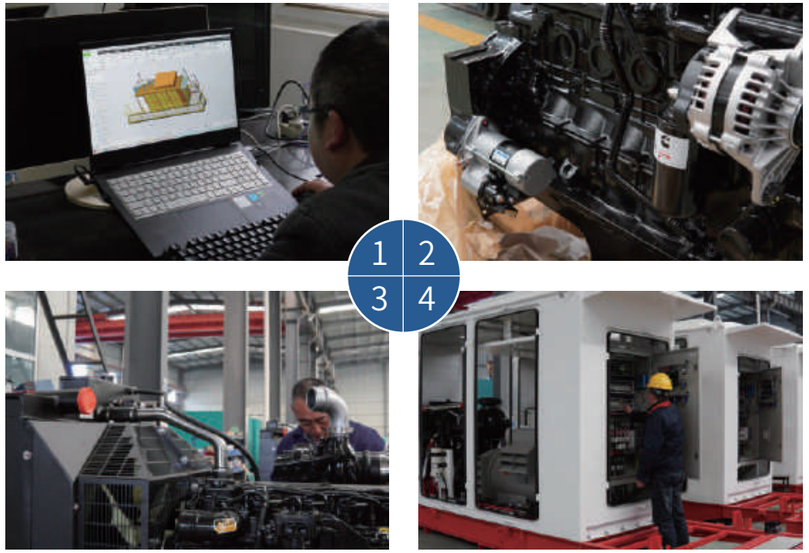
CHALLENGE

Gantry cranes are responsible for moving containers in the sea ports. They operate on electricity and require a stable power source to operate efficiently. In the absence of a reliable power grid, diesel generators can be used to power the gantry gates.

One client approached Haifeng sales team and requested to manufacture custom diesel generator solutions that ensure uninterrupted power supply for gantry cranes. The major requirements of the power solutions are as follows:

- The size of the entire power solution needs to be small to integrate with the gantry gate control system.
- This power solution needs to endure harsh environmental conditions, including saltwater and high levels of humidity.
- The selected diesel engines need to be reliable, require minimum maintenance, and have great fuel economy.

POWER GENERATOR



OUR EXECUTION AND RESULTS

- Our engineering team completely redesigned the generator ventilation system and managed to integrate it with the gantry gate control system, resulting in a **20.8%** saving in space.
- By applying three layers of custom anti-rust paint, we created the gantry crane silent canopies with longer durability for a lifetime of up to **10 years**.
- By sourcing the more efficient Cummins QSK series diesel engine, we saved maintenance costs by **18.8%** in consumables such as air filters, fuel filters, and oil filters, and reduced fuel consumption by 9.5 liters per hour. The total yearly program savings exceeded **500,000 USD.**

CUMMINS

Options for using Cummins engine from Dongfeng Cummins engine Co.,Ltd

Frequency: 50hz

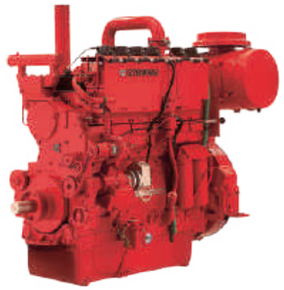
Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-17C	20/17	24/19	4B3.9-G11	5.7	4L	3.9
HF-2C-I	27/22	30/24	4B3.9-G1	7.1	4L	3.9
HF-22C-II	27/22	30/24	4B3.9-G2	6.7	4L	3.9
HF-25C	30/25	34/27	4B3.9-G12	7.4	4L	3.9
HF-32C-I	40/32	44/35	4BT3.9-G1	10.0	4L	3.9
HF-32C-II	40/32	44/35	4BT3.9-G2	9.3	4L	3.9
HF-40C	50/40	55/44	4BTA3.9-G2	12.9	4L	3.9
HF-52C-I	65/52	70/56	4BTA3.9-G2	14.9	4L	3.9
HF-48C	60/48	66/53	QSB3.9-G2	18.0	4L	3.9
HF-52C-II	65/52	70/56	4BTA3.9-G2	14.9	4L	3.9
HF-64C-I	80/64	88/70	4BTA3.9-G11	17.6	4L	3.9
HF-64C-II	80/64	88/70	QSB3.9-G3	20.0	4L	3.9
HF-75C-I	94/75	103/82	6BT5.9-G1	21.7	6L	5.9
HF-75C-II	94/75	103/82	6BT5.9-G2	22.0	6L	5.9
HF-84C-I	105/84	76/95	4BTA3.9-G13	18.8	4L	3.9
HF-80C-I	100/80	110/88	6BT5.9-G1	21.7	6L	5.9
HF-80C-II	100/80	110/88	6BT5.9-G2	22.0	6L	5.9
HF-80C-III	100/80	110/88	QSB5.9-G2	26.0	6L	5.9
HF-84C-II	105/84	115/92	6BT5.9-G2	24.2	6L	5.9
HF-92C	115/92	125/100	6BTA5.9-G2	27.0	6L	5.9
HF-100C-I	125/100	138/110	6BTA5.9-G2	27.0	6L	5.9
HF-100C-II	125/100	138/110	6BTAA5.9-G2	30.0	6L	5.9
HF-100C-III	125/100	138/110	QSB5.9-G3	31.0	6L	5.9
HF-108C	135/108	145/116	6BTAA5.9-G2	30.0	6L	5.9
HF-120C-I	150/120	165/132	6BTAA5.9-G12	34.0	6L	6.7
HF-120C-II	150/120	165/132	QSB6.7-G3	38.0	6L	6.7
HF-145C-I	180/145	198/158	QSB6.7-G4	43.0	6L	8.3
HF-145C-II	180/145	200/160	6CTA8.3-G1	42.0	6L	8.3
HF-145C-III	180/145	200/160	6CTA8.3-G2	42.0	6L	8.3
HF-160C-I	200/160	215/172	6CTAA8.3-G2	45.0	6L	8.3
HF-160C-II	200/160	220/176	QSL8.9-G2	55.0	6L	8.9
HF-180C	225/180	248/198	QSL8.9-G3	57.0	6L	8.9
HF-200C-I	250/200	275/220	6LTAA8.9-G2	53.0	6L	8.9
HF-200C-II	250/200	275/220	6LTAA8.9-G3	54.0	6L	8.9
HF-200C-III	250/200	275/220	QSL8.9-G4	60.0	6L	8.9
HF-216C	270/216	300/240	6LTAA9.5-G3	58.0	6L	9.5
HF-256C	320/256	350/280	6LTAA9.5-G1	70.0	6L	9.5
HF-288C	360/288	400/320	QSZ13-G6	72.3	6L	13.0
HF-310C	388/310	425/340	6ZTAA13-G3	76.5	6L	13.0
HF-320C	400/320	450/360	QSZ13-G7	82.0	6L	13.0
HF-350C-I	438/350	468/375	QSZ13-G2	78.4	6L	13.0
HF-350C-II	438/350	475/380	6ZTAA13-G2	89.1	6L	13.0
HF-350C-III	438/350	475/380	6ZTAA13-G4	91.4	6L	13.0
HF-360C	450/360	500/400	QSZ13-G5	84.0	6L	13.0
HF-400C-I	500/400	525/420	QSZ13-G3	101.0	6L	13.0
HF-400C-III	500/400	550/440	QSZ13-G10	101.0	6L	13.0

Frequency: 60hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-20C	25/20	28/22	4B3.9-G11	7.1	4L	3.9
HF-24C	30/24	33/26	4B3.9-G2	7.5	4L	3.9
HF-28C	35/28	38/30	4B3.9-G12	9.4	4L	3.9
HF-36C	45/36	50/40	4BT3.9-G2	9.3	4L	3.9
HF-52C	65/52	70/56	4BTA3.9-G2	17.4	4L	3.9
HF-60C	75/60	83/66	4BTA3.9-G2	17.4	4L	3.9
HF-72C	90/72	100/80	4BTA3.9-G11	20.1	41	3.9
HF-90C	113/90	125/100	6BT5.9-G2	29.7	6L	5.9
HF-100C	125/100	138/110	6BT5.9-G2	29.7	6L	5.9
HF-105C	131/105	145/116	6BTA5.9-G2	31.0	6L	5.9
HF-116C	145/116	156/125	6BTAA5.9-G2	34.0	6L	5.9
HF-128C	160/128	175/140	6BTAA5.9-G12	38.0	6L	5.9
HF-150C	188/150	207/165	6CTA8.3-G2	44.0	6L	8.3
HF-168C	210/168	230/184	6CTAA8.3-G2	49.0	6L	8.3
HF-200C	250/200	275/220	6LTAA8.9-G2	59.0	6L	8.9
HF-220C-I	275/220	303/242	6LTAA8.9-G3	62.0	6L	8.9
HF-220C-I	275/220	303/242	6LTAA9.5-G3	65.0	6L	9.5
HF-256C	320/256	280/350	6LTAA9.5-G1	68.0	6L	9.5
HF-310C-I	388/310	425/340	6ZTAA13-G3	81.0	6L	13.0
HF-310C-II	388/310	425/340	QSZ13-G6	78.1	6L	13.0
HF-350C-I	438/350	468/375	QSZ13-G2	77.0	6L	13.0
HF-350C-II	438/350	475/380	6ZTAA13-G2	95.6	6L	13.0
HF-350C-III	438/350	475/380	6ZTAA13-G4	98.1	6L	13.0
HF-360C	450/360	488/390	QSZ13-G7	95.0	6L	13.0
HF-380C-I	475/380	525/420	QSZ13-G5	89.0	6L	13.0
HF-380C-II	475/380	500/400	QSZ13-G3	101.0	6L	13.0

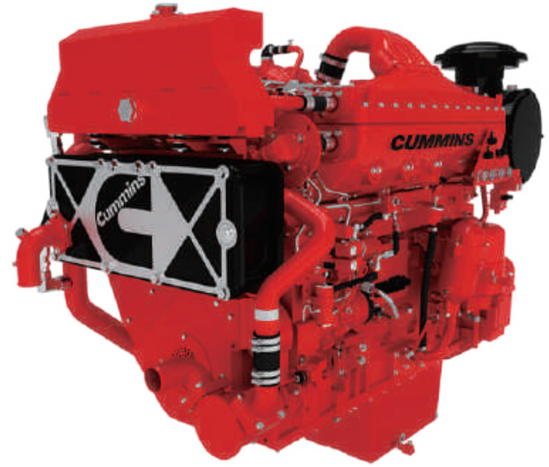
CUMMINS

Options for using Cummins engine Model M, N, K and QSK series from Chongqing Cummins Engine Company Co.,Ltd



Frequency: 50hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-200C-IV	250/200	275/220	NT855-GA	53.0	6L	10.8
HF-200C-V	250/200	275/220	MTA11-G2	52.0	6L	10.8
HF-200C-VI	250/200	275/220	NTA855-G1	59.0	6L	14.0
HF-200C-VII	250/200	275/220	QSNT-G6	62.0	6L	14.0
HF-220C-I	275/220	313/250	QSNT-G7	68.0	6L	14.0
HF-220C-II	275/220	313/250	NTA855-G1A	61.0	6L	14.0
HF-250C-I	313/250	350/280	MTAA11-G3	61.3	6L	14.0
HF-250C-II	313/250	350/280	NTA855-G1B	68.0	6L	14.0
HF-250C-III	313/250	350/280	NTA855-G2	68.0	6L	14.0
HF-250C-IIII	313/250	350/280	QSNT-G1	76.0	6L	14.0
HF-275C	344/275	375/300	NTA855-G2A	72.0	6L	14.0
HF-280C-I	350/280	388/310	NTA855-G4	75.0	6L	14.0
HF-280C-II	350/280	388/310	QSNT-G2	80.0	6L	18.9
HF-300C-I	365/300	413/330	NTAA855-G7	86.0	6L	14.0
HF-300C-II	365/300	413/330	KTA19-G2	83.0	6L	19.0
HF-320C	400/320	438/350	QSNT-G3	70.5	6L	18.9
HF-327C	N/A	450/360	NTAA855-G7A	98.0	6L	18.9
HF-360C-I	450/360	500/400	QSNT-G4X	80.0	6L	18.9
HF-360C-II	450/360	500/400	QSK19-G14	99.7	6L	18.9
HF-360C-III	450/360	500/400	K7A19-G3	97.0	6L	18.9
HF-400C-I	500/400	562/450	KTA19-G3A	106.9	61	18.9
HF-400C-II	500/400	562/450	KTA19-G4	107.0	6L	18.9
HF-400C-III	500/400	562/450	QSK19-G13	109.5	6L	19.0
HF-460C-I	575/460	630/S05	QSK19-G12	128.3	6L	19.0
HF-420C	525/420	630/505	KTAA19-G5	113.0	6L	19.0
HF-470C	588/470	646/517	QSK19-G6	129.6	6L	19.0
HF-460C-II	575/460	650/520	KTAA19-G6	118.5	6L	19.0
HF-472C	N/A	650/520	KTA19-G8	141.4	6L	19.0
HF-500C-I	N/A	688/550	KTAA19-G6A	155.0	6L	19.0
HF-500C-II	N/A	688/550	KTAA19-G7	155.0	6L	19.0
HF-500C-III	625/500	700/560	KT38-G	140.0	12V	37.8
HF-520C	650/520	712/570	QSK19-G4	143.0	12V	19.0
HF-550C	688/550	750/600	QSK19-G11	153.8	12V	19.0
HF-570C-I	712/570	788/630	K7A38-G1	160.4	12V	38.0
HF-570C-II	712/570	788/630	KTA38-G1B	160.4	12V	38.0
HF-580C	725/580	800/640	KT38-GA	168.2	12V	38.0
HF-600C-I	750/600	825/660	KTA38-G2	167.0	12V	38.0
HF-570C-II	750/600	825/660	QSK38-G8	168.0	12V	38.0
HF-640C	800/640	888/710	KTA38-G2B	167.3	12V	38.0
HF-650C	813/650	888/710	QSK38-G7	180.0	12V	38.0
HF-728C-I	910/728	1000/800	KTA38-G2A	191.0	12V	38.0
HF-728C-II	910/728	1000/800	QSK38-G6	197.0	12V	38.0
HF-800C	1000/800	1100/880	KTA38-G5	209.0	12V	38.0
HF-806C	1008/806	1108/887	QSK38-G1	212.0	12V	38.0
HF-909C	N/A	1250/1000	KTA38-G9	247.5	12V	38.0
HF-915C	1144/915	1258/1007	QSK38-G2	235.0	12V	38.0
HF-1000C-I	1250/1000	1375/1100	QSK38-G5	271.0	12V	38.0
HF-1000C-II	1250/1000	1375/1100	KTA50-G3	254.0	16V	50.3
HF-1020C	1275/1020	1375/1100	K7A50-G12	249.0	16V	50.3
HF-1100C-I	1375/1100	1650/1320	KTA50-G8	289.0	16V	50.3
HF-1100C-II	1375/1100	1650/1320	QSK38-G19	288.0	12V	38.0
HF-1100C-III	1375/1100	1600/1280	K7A5O-G12A	207.0	16V	50.3
HF-1200C	1500/1200	1650/1320	KTA50-GS8	308.8	16V	50.3
HF-1232C	1540/1232	1700/1360	QSK50-G4	338.0	16V	50.3
HF-1320C	1650/1320	1825/1460	QSK50-G7	349.0	16V	50.3

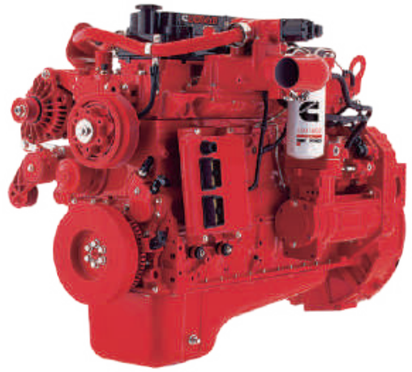


Frequency: 60hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-200C-II	N/A	275/220	NT855-GA	59.4	6L	14.0
HF-250C-II	313/250	344/275	NTA855-G1	73.4	6L	14.0
HF-275C-I	344/275	375/300	NTA855-G1B	80.5	6L	14.0
HF-275C-II	344/275	375/300	NTA855-G2	80.5	6L	14.0
HF-315C	394/315	438/350	NTA855-G3	87.0	6L	14.0
HF-320C	400/320	438/350	QSNT-G3	94.0	6L	14.0
HF-350C	438/350	500/400	KTA19-G2	98.0	6L	19.0
HF-410C	513/410	563/450	KTA19-G3	111.0	6L	19.0
HF-450C-I	563/450	625/500	KTA19-G3A	119.9	6L	19.0
HF-450C-II	563/450	625/500	KTA19-G4	120.0	6L	19.0
HF-470C	588/470	688/550	KTAA19-G5	134.0	6L	19.0
HF-500C	625/500	712/570	QSK19-G4	143.0	6L	19.0
HF-545C-I	681/545	813/650	QSK19-G8	151.0	6L	19.0
HF-550C	688/550	750/600	QSK19-G5	151.0	6L	19.0
HF-545C-II	N/A	750/600	KTAA19-G6A	140.0	6L	19.0
HF-620C	775/620	850/680	KT38-G	154.0	12V	38.0
HF-700C	875/700	963/770	KTA38-G1	195.4	12V	38.0
HF-725C	906/725	1000/800	KTA38-G2	204.0	12V	38.0
HF-750C	938/750	1038/830	KTA38-G2B	204.1	12V	38.0
HF-800C	1000/800	1125/900	KTA38-G2A	225.0	12V	38.0
HF-900C	1125/900	1250/1000	KTA38-G4	245.2	12V	38.0
HF-960C	1200/960	1438/1150	QSK38-G5	262.0	12V	38.0
HF-1000C	N/A	1375/1100	KTA38-G9	267.0	12V	38.0
HF-1220C	1525/1220	1441/1430	KTA50-G12A	267.0	16V	50.3
HF-1130C	1412/1130	1475/1180	KTA50-G12	267.0	16V	50.3
HF-1100C-I	1375/1100	1550/1240	QSK38-G4	278.0	12V	38.0
HF-1100C-II	1375/1100	1563/1250	KTA50-G3	282.0	16V	50.3
HF-1250C	1563/1250	1875/1500	KTA5O-G9	267.0	16V	50.3
HF-1365C	1706/1365	1875/1500	QSK50-G4	365.0	16V	50.3
HF-1455C	1819/1455	2000/1600	QSK50-G6	338.0	16V	50.3

CUMMINS

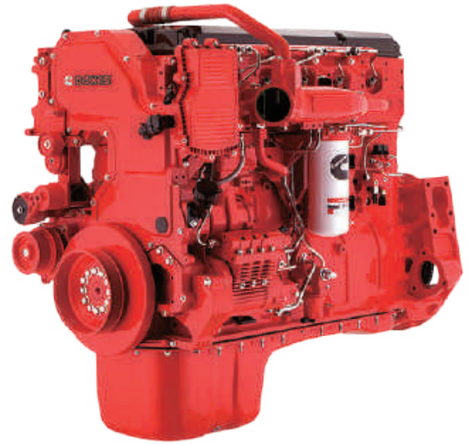
Options for using Cummins engine model 4BT and QS/QT series from imported USA Cummins



Frequency: 50hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-66C	82/66	90/72	QSB5-G3	25.0	4L	4.5
HF-73C	91/73	100/80	QSB5-G4	24.0	4L	4.5
HF-80C	100/80	110/88	QSB5-G5	25.0	4L	4.5
HF-120C-I	136/120	150/120	QSB5-G6	31.0	4L	4.5
HF-120C-I	150/120	175/140	QSB7-G3	38.0	6L	6.7
HF-144C	180/144	200/160	QSB7-G4	42.0	6L	6.7
HF-160C	200/160	220/176	QSB7-G5	45.0	6L	6.7
HF-225C	180/225	250/200	QSL9-G2	56.0	6L	8.9
HF-200C	250/200	275/220	QSL9-G3	59.0	6L	8.9
HF-220C	275/220	300/240	QSL9-G4	62.0	6L	8.9
HF-240C	300/240	330/264	QSL9-G7	70.0	6L	8.9
HF-327C	409/327	450/360	QSX15-G4	85.0	6L	15.0
HF-364C	455/364	500/400	QSX15-G6	95.0	6L	15.0
HF-400C	500/400	550/440	QSX15-G8	103.0	6L	15.0
HF-509C	636/509	700/560	VTA28-G5	130.0	12V	28.0
HF-520C	650/520	715/572	QSK19-G4	147.0	6L	19.0
HF-600C-I	750/600	810/650	QSK23-G2	151.0	6L	23.0
HF-600C-II	750/600	825/660	VTA28-G6	177.0	12V	28.0
HF-648C	810/648	900/720	QSK23-G3	161.0	6L	23.0
HF-728C	910/728	1000/800	QST30-G3	184.0	12V	30.5
HF-800C	1000/800	1100/880	QST30-G4	220.0	12V	30.5
HF-823C	1029/823	1132/906	KTA38-G5	210.0	12V	38.0
HF-908C	1135/908	1250/1000	QSK38-G2	242.0	12V	38.0
HF-900C	1125/900	1250/1000	KTA38-G9	232.0	12V	37.8
HF-1020C	1275/1020	1400/1120	QSK38-G3	271.0	12V	38.0
HF-1020C	1275/1020	1400/1120	KTA50-G3	261.0	16V	50.0
HF-1232C	1540/1232	1700/1360	QSK50-G4	338.0	16V	50.0
HF-1120C	1400/1120	1675/1340	KTA50-G8	289.0	16V	50.0
HF-1200C	1500/1200	1675/1340	KTA50-GS8	309.0	16V	50.0
HF-1320C	1650/1320	1825/1460	QSK50-G7	349.0	16V	50.0
HF-1370C	1713/1370	1875/1500	QSK50-G13	349.0	16V	50.0
HF-1500C	1875/1500	2000/1600	QSK60-G3	371.0	16V	60.2
HF-1638C	2045/1636	2250/1800	QSK60-G4	394.0	16V	60.2
HF-1800C	2250/1800	2500/2000	QSK60-G8	448.0	16V	60.2
HF-2000C-I	2500/2000	2750/2200	QSK60-G23	496.0	16V	60.2
HF-2000C-II	2500/2000	2750/2200	QSK78-G18	494.0	18V	77.6
HF-2200C	2750/2200	3000/2400	QSK78-G9	550.0	18V	78.0
HF-2500C	3125/2500	3500/2800	QSK95-G5	658.0	16V	95.0
HF-2680C	3350/2680	3750/3000	QSK95-G4	666.0	16V	95.0

POWER GENERATOR



Frequency: 60hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-72C	90/72	100/80	QSB5-G3	26.0	4L	4.5
HF-82C	103/82	113/90	QSB5-G4	27.0	4L	4.5
HF-90C	113/90	125/100	QSB5-G5	29.0	4L	4.5
HF-113C	141/113	156/125	QSB5-G6	35.0	4L	4.5
HF-136C	170/136	188/150	QSB7-G3	42.0	6L	4.5
HF-160C	200/160	220/175	QSB7-G4	46.0	6L	6.7
HF-180C	225/180	250/200	QSB7-G5	50.0	6L	6.7
HF-210C	263/210	288/230	QSL9-G2	67.0	6L	8.9
HF-227C	284/227	313/250	QSL9-G3	70.0	6L	8.9
HF-250C	313/250	344/275	QSL9-G4	73.0	6L	8.9
HF-275C	344/275	375/300	QSL9-G7	72.0	6L	8.9
HF-360C	450/360	500/400	QSX15-G8	98.0	6L	15.0
HF-410C	513/410	563/450	QSX15-G7	108.0	6L	15.0
HF-450C	563/450	625/500	QSX15-G9	117.0	6L	15.0
HF-500C	625/500	688/550	QSK19-G4	143.0	6L	19.0
HF-545C	681/545	750/600	VTA28-G5	121.0	12V	28.0
HF-550C	688/550	750/600	QSK19-G5	153.0	6L	19.0
HF-690C	865/690	950/760	QSK23-G2	176.0	6L	23.0
HF-727C	909/727	1000/800	QSK23-G3	189.0	6L	23.0
HF-686C		944/755	VTA28-G7	221.0	12V	28.0
HF-823C	1029/823	1125/900	QST30-G3	207.0	12V	30.5
HF-910C	1138/910	1250/1000	KTA38-G4	245.0	12V	37.8
HF-920C	1150/920	1265/1012	QST30-G4	240.0	12V	30.5
HF-1120C	1400/1120	1588/1270	KTA50-G3	291.0	16V	50.0
HF-965C	1206/965	1450/1160	QSK38-G5	262.0	12V	38.0
HF-1125C	1406/1125	1563/1250	QSK38-G4	305.0	12V	38.0
HF-1286C	1608/1286	1931/1545	KTA50-G9	330.0	16V	50.0
HF-1365C	1706/1365	1875/1500	QSK50-G4	365.0	16V	50.0
HF-1455C	1819/1455	2000/1600	QSK50-G6	397.0	16V	50.0
HF-1630C	2040/1630	2250/1800	QSK60-G5	402.0	16V	60.2
HF-1825C	2281/1825	2500/2000	QSK60-G7	466.0	16V	60.0
HF-1800C	2250/1800	2750/2200	QSK60-G14	488.0	16V	60.0
HF-3125C	2500/3125	2844/2275	QSK78-G7	611.0	18V	77.6
HF-2500C	3125/2500	3438/2750	QSK78-G8	168.0	18V	78.0
HF-3000C	3750/3000	4375/3500	QSK95-G2	787.0	16V	95.0

PERKINS

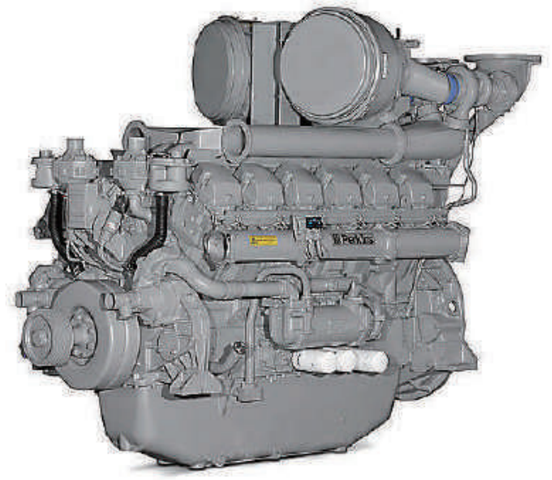
Perkins

Options for using Perkins engine from Perkins Engine Company Limited. Perkins Engines Company Limited, subsidiary of Caterpillar Inc since 1998, is a well know diesel engine manufacturer for power generation.

Frequency: 50hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-7P-I	9/7	10/8	403A-11G1	2.6	3L	1.1
HF-7P-II	9/7	10/8	403D-11G	2.6	3L	1.1
HF-10P-I	13/10	14/11	403A-15G1	3.6	3L	1.5
HF-10P-II	13/10	14/11	403D-15G	3.6	3L	1.5
HF-12P-I	15/12	17/13	403A-15G2	5.0	3L	1.5
HF-16P-I	20/16	22/18	404A-22G1	5.3	4L	2.2
HF-16P-II	20/16	22/18	404D-22G	5.3	4L	2.2
HF-22P	28/22	30/24	404D-22TG	7.0	4L	2.2
HF-24P	30/24	33/27	1103A-33G	7.1	3L	3.3
HF-36P	45/36	50/40	1103A-33TG1	10.7	3L	3.3
HF-48P	53/48	66/60	1103A-33TG2	13.9	3L	3.3
HF-52P	58/52	72/65	1104A-44TG1	14.8	4L	4.4
HF-64P-I	80/64	88/71	1104A-44TG2	18.7	4L	4.4
HF-64P-II	80/64	88/71	1104C-44TAG1	18.6	4L	4.4
HF-80P	100/80	110/88	1104C-44TAG2	22.6	4L	4.4
HF-108P	135/108	150/120	1106A-70TG1	38.0	6L	7.0
HF-120P	150/120	165/132	1106A-70TAG2	33.4	6L	7.0
HF-144P	180/144	200/160	1106A-70TAG3	41.4	6L	7.0
HF-160P-I	200/160	220/176	1106A-70TAG4	47.0	6L	7.0
HF-160P-II	200/160	220/176	1206A-E70T7AG1	45.8	6L	7.0
HF-160P-III	200/160	220/176	1206D-E70TTAG1	45.8	6L	7.0
HF-184P-I	230/184	250/200	1206A-E70TTAG2	51.0	6L	7.0
HF-184P-II	230/184	250/200	1206D-E70TTAG2	51.0	6L	7.0
HF-200P-I	250/200	275/220	1206A-E70TTAG3	56.9	6L	7.0
HF-200P-II	250/200	275/220	1206D-E70TTAG3	56.9	6L	7.0
HF-240P-I	300/240	330/264	1506A- E88TAG5	64.9	6L	8.8
HF-240P-II	300/240	330/264	1706A - E93TAG1	63.2	6L	9.3
HF-278P	347/278	383/306	1706A - E93TAG2	71.3	6L	9.3
HF-280P	350/280	400/320	2206C-E13TAG2	75.0	6L	13.0
HF-320P	400/320	450/360	2206C-E137AG3	85.0	6L	13.0
HF-364P	455/364	500/400	2506C-E15IAG1	99.0	6L	15.0
HF-400P	500/400	550/440	2506C-E15TAG2	106.0	6L	15.0
HF-473P	591/473	650/520	2806C-E18TAG1A	129.0	6L	18.0
HF-520P	650/520	700/560	2806A-E18TAG2	132.0	6L	18.0
HF-600P	750/600	825/660	4006-23TAG2A	157.0	6L	23.0
HF-640P	800/640	880/704	4006-23TAG3A	172.0	6L	23.0
HF-728P	910/728	1000/800	4008TAG1A	195.0	8L	30.6
HF-800P-I	1000/800	1125/900	4008TAG2A	220.0	8L	30.6
HF-800P-II	1000/800	1125/900	4008TAG2	230.0	8L	30.6
HF-900P	1125/900	1250/1000	4008-30TAG3	262.0	8L	30.6
HF-1000P	1250/1000	1375/1100	4012-46TWG2A	285.0	12V	45.8
HF-1100P	1375/1100	1500/1200	4012-46TWG3A	305.0	12V	45.8
HF-1200P	1500/1200	1650/1320	4012-46TAG2A	354.0	12V	45.8
HF-1350P	1688/1350	1875/1500	4012-46TAG3A	383.0	12V	45.8
HF-1480P	1850/1480	2000/1600	4016TAG1A	434.0	16V	61.1
HF-1600P	2000/1600	2250/1800	4016TAG2A	422.0	16V	61.1
HF-1800P	2250/1800	2500/2000	4016-61TRG3	470.0	16V	61.1

POWER GENERATOR

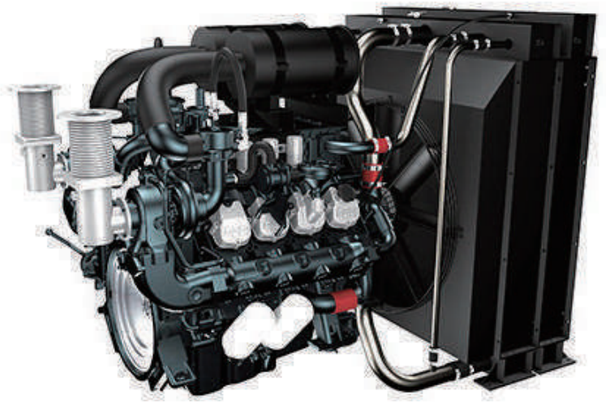


Frequency: 60hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-9P-I	10/9	13/10	403A-11G1	3.2	3L	1.1
HF-9P-II	10/9	13/10	403D-11G	3.2	3L	1.1
HF-12P-I	15/12	18/14	403A-15G1	4.2	3L	1.5
HF-12P-II	15/12	18/14	403D-15G	4.2	3L	1.5
HF-14P	17.5/14	20/15.6	403A-15G2	4.3	3L	1.5
HF-19P-I	24/19	26/21	404A-22G1	6.2	4L	2.2
HF-19P-II	24/19	26/21	404D-22G	6.2	4L	2.2
HF-26P	33/26	37/30	404D-22TG	8.3	4L	2.2
HF-28P	35/28	38/31	1103A-33G	8.5	3L	3.3
HF-29P	36/29	40/32	404D-22TAG	8.9	4L	2.2
HF-43P	53/43	59/47	1103A-33TG1	11.2	3L	3.3
HF-55P	68/55	75/60	1103A-33TG2	14.6	3L	3.3
HF-61P	76/61	84/67	1104A-44TG1	17.8	4L	4.4
HF-72P	79/72	100/80	1104C-44TAG1	22.0	4L	4.4
HF-73P	79/73	100/80	1104A-44TG2	18.8	4L	4.4
HF-92P	115/92	127/101	1104C-44TAG2	26.9	4L	4.4
HF-122P	152/122	169/135	1106A-70TG1	35.2	6L	7.0
HF-135P	169/135	188/150	1106A-70TAG2	38.2	6L	7.0
HF-158P	197/158	219/175	1106A-70TAG3	41.4	6L	7.0
HF-180P	225/180	250/200	1206A-E70TTAG1	54.5	6L	7.0
HF-200P-I	250/200	275/220	1206D-E70TTAG1	54.5	6L	7.0
HF-200P-II	250/200	275/220	1206A-E70TTAG2	54.5	6L	7.0
HF-200P-III	250/200	275/220	1206D-E70TTAG2	54.5	6L	7.0
HF-200P-IV	250/200	275/220	1206A-E70TTAG3	54.5	6L	7.0
HF-200P-V	250/200	275/220	1206D-E70TTAG3	54.5	6L	7.0
HF-282P	352/282	389/312	1506A - E88TAG5	72.9	6L	8.8
HF-285P-I	357/285	394/315	1706A - E93TAG1	74.1	6L	9.3
HF-285P-II	357/285	394/315	1706A - E93TAG2	74.4	6L	9.3
HF-320P-I	400/320	438/350	2206C-E13TAG2	82.8	6L	13.0
HF-320P-II	400/320	438/350	2206C-E13TAG3	82.8	6L	13.0
HF-400P-I	500/400	563/450	2506C-E15TAG1	100.0	6L	15.0
HF-400P-II	500/400	563/450	2506C-E15TAG2	100.0	6L	15.0
HF-500P-I	625/500	687/550	2806C-E18TAG1A	127.0	6L	18.0
HF-500P-II	625/500	687/550	2806A-E18TAG2	127.0	6L	18.0
HF-600P	750/600	825/660	4006-23TAG2A	176.0	6L	23.0
HF-680P	850/680	935/748	4006-23TAG3A	200.0	6L	23.0
HF-800P	1000/800	1100/880	4008TAG2	224.0	8L	30.6
HF-1000P	1250/1000	1375/1100	4012-46TWG2A	266.0	12V	46.0
HF-1100P	1375/1100	1500/1200	4012-46TWG3A	289.0	12V	46.0
HF-1200P	1500/1200	1650/1320	4012-46TAG2A	315.0	12V	46.0
HF-1350P	1688/1350	1875/1500	4012-46TAG3A	356.0	12V	46.0

DOOSAN

Options for using Doosan engines from Doosan Group. Doosan Engine belongs to the Doosan Engineering Machinery Company and it manufactures new engine products based on the original Daewoo engine.



Frequency: 50hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-5D	6.8/5.4	8/6	SP103NA	2.5	3L	1.0
HF-11D	14/11	15/12	SP173NA	3.7	3L	1.0
HF-14D	18/14	19/15	SP224NA	6.1	4L	2.2
HF-19D	24/19	26/21	SP183CA	6.5	4L	1.8
HF-20D	25/20	28/22	SP244TA	7.5	4L	2.4
HF-30D	38/30	41/33	SP244CA	9.8	4L	2.4
HF-50D	63/50	69/55	SP344CA	15.9	4L	2.4
HF-120D	150/120	165/132	DP086TA	33.7	6L	8.1
HF-134D	168/134	185/148	P086TI-1	35.4	6L	8.1
HF-160D	200/160	220/176	P086TI	43.1	6L	8.1
HF-183D	229/183	251/201	DP086LA	48.7	6L	8.1
HF-220D	275/220	303/242	P126TI	58.1	6L	11.1
HF-240D	300/240	330/264	P126TI-II	63.1	6L	11.1
HF-292D	365/292	402/321	DP126LB	78.7	6L	11.1
HF-326D	408/326	448/358	P158LE	89.3	8V	14.6
HF-363D	454/363	500/400	P158FE	105.1	8V	14.6
HF-370D	463/370	509/407	DP158LC	99.6	8V	14.6
HF-410D	513/410	564/451	P180FE	120.4	10V	14.6
HF-423D	529/423	582/465	DP158LD	115.1	8V	18.3
HF-460D	575/460	633/506	DP180LA	123.6	10V	18.3
HF-510D	638/510	701/561	DP180LB	136.4	10V	18.3
HF-520D	650/520	715/572	P222FE	148.5	12V	21.9
HF-550D	688/550	756/605	DP222LB	147.1	12V	21.9
HF-600D	750/600	825/660	DP222LC	161.0	12V	21.9
HF-610D	763/610	839/671	DP222CA	163.8	12V	21.9
HF-650D	813/650	894/715	DP222CB	174.1	12V	21.9
HF-730D	913/730	1004/803	DP222CC	195.1	12V	21.9

VER GENERATOR

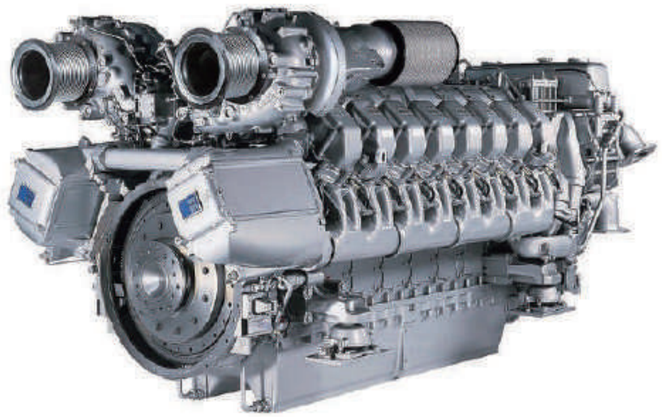
Frequency: 60hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-6D-I	9/6.8	10/7.5	SP103NE	3.0	3L	1.0
HF-6D-II	9/6.8	10/7.5	SP103NH	3.0	3L	1.0
HF-13D-I	17/13	18/14	SP173NC	5.1	3L	1.6
HF-13D-II	17/13	18/14	SP173ND	5.1	3L	1.6
HF-19D	24/19	25/20	SP224NC	7.3	4L	2.2
HF-21D	26/21	29/23	SP183CA	7.8	4L	1.8
HF-23D	29/23	32/25	SP244TC	9.0	4L	2.0
HF-35D	44/35	49/39	SP244CA	10.9	4L	2.2
HF-52D	65/52	72/57	SP334CA	16.9	5L	3.2
HF-150D	188/150	206/165	DP086TA	41.3	6L	8.1
HF-154D	193/154	213/170	P086TI-I	42.4	6L	8.1
HF-183D	229/183	250/200	P086TI	50.6	6L	8.1
HF-204D	255/204	281/225	DP086LA	56.0	6L	8.1
HF-250D	313/250	344/275	P126TI	703.0	6L	11.1
HF-275D	344/275	385/308	P126TI-II	73.8	6L	11.1
HF-320D	400/320	440/352	DP126LB	94.7	6L	11.1
HF-355D	444/355	489/391	P158LE	102.5	8V	14.6
HF-392D	490/392	539/431	P158FE	119.3	8V	14.6
HF-416D	520/416	572/458	DP158LC	111.5	8V	14.6
HF-453D	566/453	624/499	DP158LD	127.1	8V	14.6
HF-462D	578/462	635/508	P180FE	137.7	8V	18.3
HF-500D	625/500	688/550	DP180LA	140.5	8V	18.3
HF-543D	679/543	747/597	DP180LB	150.7	8V	18.3
HF-600D-I	750/600	825/660	DP222LA	161.7	12V	21.9
HF-600D-II	750/600	825/660	P222FE	175.1	12V	21.9
HF-635D-I	794/635	898/718	DP222LB	172.7	12V	21.9
HF-672D-I	840/672	924/739	DP222LC	183.2	12V	21.9
HF-690D-I	863/690	949/759	DP222CA	188.3	12V	21.9
HF-750D-I	938/750	1031/825	DP222CB	200.1	12V	21.9
HF-800D-I	1000/800	1100/880	DP222CC	222.4	12V	21.9

MTU

Frequency: 50hz

Options for using MTU engines from MTU Germany. MTU Friedrichshafen GmbH is a German manufacturer of diesel engines founde in 1909.

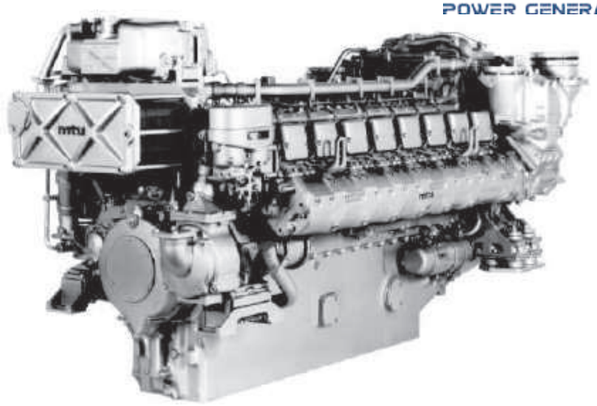


Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-370M	463/370	509/407	10V1600G10F	100.5	10V	17.5
HF-400M	500/400	550/440	10V1600G20F	100.2	10V	17.5
HF-480M	600/480	660/528	12V1600G10F	1183.0	12V	21.0
HF-524M	655/524	721/577	12V1600G20F	130.1	12V	21.0
HF-515M	644/515	709/567	12V2000G25	138.5	12V	23.9
HF-620M	775/620	853/682	12V2000G65	165.2	12V	23.9
HF-730M	913/730	1004/803	16V2000G25	188.7	16V	31.8
HF-800M	1000/800	1100/880	16V2000G65	207.3	16V	31.8
HF-910M	1138/910	1250/1000	18V2000G65	237.6	18V	35.8
HF-1100M	1375/1100	1513/1210	12V4000G23R	276.4	12V	57.2
HF-1320M	1650/1320	1815/1452	12V4000G23	350.2	12V	57.2
HF-1470M	1838/1470	2021/1617	12V4000G63	355.8	12V	57.2
HF-1670M	2088/1670	2296/1837	16V4000G23	406.1	16V	76.3
HF-1830M	2288/1830	2516/2013	16V4000G63	441.5	16V	76.3
HF-2040M	2550/2040	2805/2244	20V4000G23	504.7	20V	95.4
HF-2250M	2813/2250	3094/2475	20V4000G63	549.5	20V	95.4
HF-2400M	3000/2400	3300/2640	20V4000G63L	585.0	20V	95.4

POWER GENERATOR

Frequency: 50hz

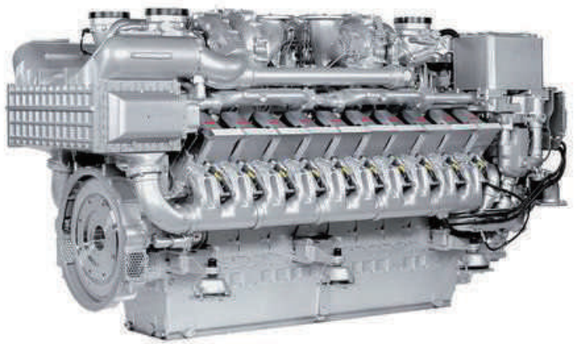
2.Options for using MTU Yuchai from MTU Yuchai Power Company Limited. Located in Yulin City, Guangxi, it is a joint vernture company established by MTU Friedrichshafen GmbH and Guangxi Yuchai Machinery Co.,LTD.



Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-1100M	1375/1100	N/A	12V4000G23RF	350.0	12V	57.2
HF-1320M	1650/1320	1815/1452	12V4000G23F	350.0	12V	57.2
HF-1400M	1750/1400	2000/1600	12V4000G63F	356.0	12V	57.2
HF-1600M	2000/1600	2250/1800	16V4000G23F	406.0	16V	76.3
HF-1800M	2250/1800	2500/2000	16V4000G63F	442.0	16V	76.3
HF-2000M	2500/2000	2750/2200	20V4000G23F	505.0	20V	95.4
HF-2200M	2750/2200	3000/2400	20V4000G63F	550.0	20V	95.4
HF-2400M	3000/2400	3250/2600	20V4000G63F	585.0	20V	95.4

Frequency: 50hz

The MTU 2000 series are manufactured by MTU company in its factory at Suzhou city, China.



Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
AM709	644/515	709/567	12V2000G25	138.5	12V	23.9
AM853	775/620	853/682	12V2000G65	165.2	12V	23.9
AM 1004	913/730	1004/803	16V2000G25	188.7	16V	31.8
AM1100	1000/800	1100/880	16V2000G65	207.3	16V	31.8
AM1250	1138/910	1250/1000	18V2000G65	237.6	18V	35.8

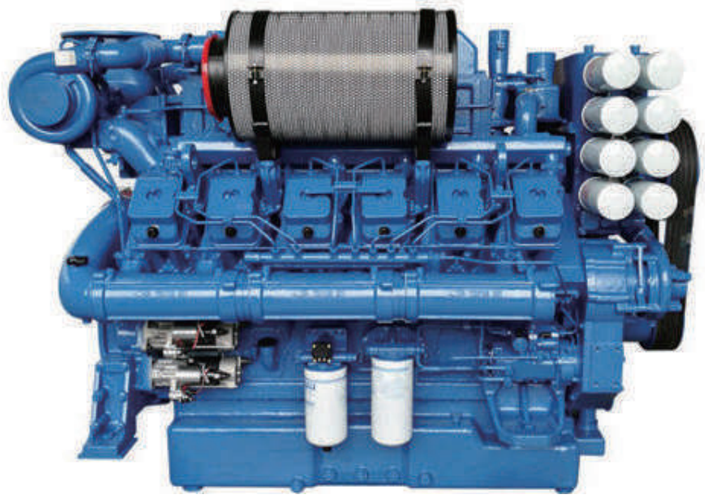
YUCHAI

Options for using Yuchai engines from Guangxi Yuchai Machinery Co., Ltd. Founded in 1951, Guangxi Yuchai Machinery Co., Ltd. is located in Yulin, Guangxi, and it manufactures diesel engine with power ranges from 20kw to 4680kw.

Frequency: 50hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-16Y-I	20/16	22/17.6	4D24G4/A	5.1	4L	2.5
HF-16Y-II	20/16	22/17.6	4D24G6	5.1	4L	2.5
HF-20Y-I	25/20	28/22	4D24G2/A	5.9	4L	2.5
HF-20Y-II	25/20	28/22	4D24G7	5.9	4L	2.5
HF-24Y-I	30/24	33/26.4	4D24TG2/A	7.6	4L	2.5
HF-24Y-II	30/24	33/26.4	4D24TG2	7.6	4L	2.5
HF-30Y-I	38/30	42/33	4D24TG0/A	9.8	4L	2.5
HF-30Y-II	38/30	42/33	4D24TG0	9.8	4L	2.5
HF-30Y-III	38/30	42/33	YC4D60-D21	10.4	4L	4.2
HF-40Y	50/40	55/44	YC4D80-D34	14.8	4L	4.2
HF-50Y-I	63/50	70/55	YC4D90Z-D21	16.3	4L	4.2
HF-50Y-II	63/50	70/55	YC4D90-D34	17.0	4L	4.2
HF-60Y-I	75/60	83/66	YC4A100Z-D20	17.8	4L	4.8
HF-60Y-II	75/60	83/66	YC4D105-D34	19.6	4L	4.2
HF-70Y	88/70	96/77	YC4D120-D31	21.9	4L	4.2
HF-80Y-I	100/80	110/88	YC4A140L-D20	23.1	4L	4.8
HF-80Y-II	100/80	110/88	YC4D140-D31	25.6	4L	4.2
HF-80Y-III	100/80	110/88	YC4A140-D30	25.4	4L	4.8
HF-90Y-I	113/90	125/100	YC4D155-D31	27.6	4L	4.2
HF-90Y-II	113/90	125/100	YC4A155-D30	27.1	4L	4.8
HF-90Y-III	113/90	125/100	YC4A16S-D30	28.3	4L	4.8
HF-100Y-I	125/100	138/110	YC4A180L-D20	29.9	4L	4.8
HF-100Y-II	125/100	138/110	YC6B180L-D20	28.5	6L	6.9
HF-110Y	138/110	150/121	YC4A190-D30	31.9	4L	4.8
HF-120Y-I	150/120	165/132	YC6B205L-D20	34.9	6L	6.9
HF-120Y-II	150/120	165/132	YC6A205-D30	35.3	6L	7.3
HF-140Y	175/140	193/154	YC6A230-D30	39.8	6L	7.3
HF-150Y-I	188/150	206/165	YC6A24SL-D21	40.1	6L	7.3
HF-150Y-II	188/150	206/165	YC6A245-D30	41.8	6L	7.3
HF-160Y-I	200/160	220/176	YC6A275-D30	47.1	6L	7.3
HF-200Y-I	250/200	275/220	YC6MK350L-D20	57.2	6L	10.3
HF-200Y-II	250/200	275/220	YC6MK350-D30	57.5	6L	10.3
HF-250Y-I	313/250	344/275	YC6MK420L-D20	68.6	6L	10.3
HF-250Y-I	313/250	344/275	YC6MK420-D30	68.3	6L	10.3
HF-280Y-I	350/280	385/308	YC6MJ480L-D20	79.2	6L	11.7
HF-280Y-II	350/280	385/308	YC6MK450-D30	72.6	6L	10.3
HF-300Y-I	375/300	413/330	YC6MJ500L-D21	80.7	6L	11.7
HF-300Y-II	375/300	413/330	YC6MJ500-D30	82.0	6L	11.7
HF-300Y-III	375/300	413/330	YC6K500-D30	83.0	6L	12.2
HF-300Y-IV	375/300	413/330	YC6K500-D31	83.0	6L	12.2
HF-320Y-I	400/320	440/352	YC6MJ540-D30	89.0	6L	11.7
HF-320Y-II	400/320	440/352	YC6K520-D30	89.0	6L	12.2
HF-320Y-III	400/320	440/352	YC6T550L-D21	89.6	6L	16.4
HF-360Y-I	450/360	500/400	YC6T600L-D22	98.2	6L	16.4
HF-360Y-II	450/360	500/400	YC6MJ600-D30	101.0	6L	11.7
HF-360Y-III	450/360	500/400	YC6K600-D30	100.0	6L	12.9
HF-400Y-I	500/400	S50/440	YC6T660L-D20	110.1	6L	16.4
HF-400Y-II	500/400	550/440	YC6T660-D31	113.8	6L	16.4
HF-450Y	563/450	625/500	YC6TD780-D31	137.0	6L	19.6
HF-500Y	625/500	688/550	YC6TD840-D31	144.5	6L	19.6
HF-550Y	688/550	756/600	YC6TD900-D31	154.3	6L	19.6
HF-600Y-I	750/600	825/660	YC6TD1000-D30	166.6	6L	19.6
HF-600Y-II	750/600	825/660	YC6C1020-D31	172.5	6L	39.6
HF-650Y	813/650	888/710	YC6C1070-D31	181.6	6L	39.6
HF-730Y	913/730	1000/800	YC6C1220-D31	203.7	6L	39.6
HF-800Y-I	1000/800	1125/900	YC6C1320L-D31	220.2	6L	39.6
HF-800Y-II	1000/800	1125/900	YC12VTD1350-D30	229.4	12V	39.2
HF-900Y-I	1125/900	1250/1000	YC12VTD1500-D30	252.5	12V	39.2
HF-900Y-II	1125/900	1250/1000	YC6C1520-D31	253.3	6L	39.6
HF-1000Y-I	1250/1000	1375/1100	YC6C1660-D30	276.8	6L	39.6
HF-1000Y-II	1250/1000	1375/1100	YC12VTD1680-D30	281.9	12V	39.2
HF-1000Y-III	1250/1000	1375/1100	YC12VC1680-D31	278.9	12V	79.2
HF-1100Y	1375/1100	1500/1200	YC12VTD1830-D30	305.7	12V	39.2
HF-1200Y-I	1500/1200	1650/1320	YC12VTD2000-D30	338.6	12V	39.2
HF-1200Y-II	1500/1200	1650/1320	YC12VC2070-D31	339.1	12V	79.2
HF-1350Y-I	1688/1350	1857/1485	YC12VC2270-D31	370.6	12V	79.2
HF-1350Y-II	1688/1350	1857/1485	YC16VTD2270-D30	383.0	16V	52.3
HF-1450Y	1813/1450	2000/1600	YC16VTD2470-D30	415.0	16V	52.3
HF-1500Y	1875/1500	2063/1650	YC12VC2510-D31	416.5	12V	79.2
HF-1700Y	2125/1700	2338/1870	YC12VC2700-D31	442.7	12V	79.2
HF-1800Y	2250/1800	2475/1980	YC16VC3OOO-D31	493.9	16V	106.0
HF-2000Y	2500/2000	2750/2200	YC16VC33OO-D31	543.2	16V	106.0
HF-2200Y	2750/2200	3000/2400	YC16VC3600-D31	595.3	16V	106.0

POWER GENERATOR



Frequency: 60hz

Genset Model	Prime power	Standby power	Engine model	Fuel consumption	Cylinder	Displacement (L)
	KVA / KW	KVA / KW		KVA / KW		
HF-30Y	38/30	41/33	YC4D65-D20	12.0	4L	4.2
HF-48Y	60/48	63/50	YC4D80Z-D20	14.0	4L	4.2
HF-55Y	69/55	75/60	YC4D100Z-D20	17.0	4L	4.8
HF-80Y-I	100/80	113/90	YC6B130Z-D20	24.0	6L	6.9
HF-80Y-II	100/80	113/90	YC4D140-D33	27.0	4L	4.2
HF-90Y-II	113/90	125/100	YC4D155-D33	29.0	4L	4.2
HF-90Y-II	113/90	125/100	YC6B160Z-D20	29.0	4L	6.9
HF-100Y	125/100	138/110	YC4D180-D33	32.0	4L	4.2
HF-120Y-I	150/120	165/132	YC4A205-D32	37.0	4L	4.8
HF-120Y-II	150/120	163/130	YC6B210L-D20	36.0	6L	6.9
HF-144Y	180/144	200/160	YC6A245L-D20	40.0	6L	7.3
HF-150Y	188/150	200/160	YC6A245-D32	48.0	6L	7.3
HF-160Y	200/160	225/180	YC6A285-D32	51.0	6L	7.3
HF-176Y	220/176	238/190	YC6A305-D32	54.0	6L	7.3
HF-200Y-I	250/200	275/220	YC6MK360L-D20	59.0	6L	10.3
HF-200Y-II	250/200	275/220	YC6MK360-D30	61.0	6L	10.3
HF-250Y-I	313/250	344/275	YC6MK420L-D21	69.0	6L	11.7
HF-250Y-II	313/250	344/275	YC6MK420-D31	70.0	6L	10.3
HF-280Y-II	350/280	375/300	YC6MJ480L-D21	80.0	6L	11.7
HF-300Y-I	375/300	413/330	YC6MJ500-D22	83.0	6L	16.4
HF-300Y-II	375/300	413/330	YC6MK500-D32	85.0	6L	10.3
HF-400Y	500/400	550/440	YC6T660L-D21	108.0	6L	16.4
HF-450Y	563/450	625/500	YC6TD780-D32	136.0	6L	19.6
HF-500Y	625/500	688/550	YC6TD840-D32	144.0	6L	19.6
HF-550Y	688/550	750/600	YC6TD940-D32	160.0	6L	19.6
HF-600Y	750/600	825/660	YC6TD1020-D32	174.0	6L	19.6

AUTOMATIC CONTROL SYSTEM

SmartGen HGM6110U

HGM6100U series automatic controller, integrating digital, intelligent and network techniques, is used for automatic control and monitoring system of genset. It can carry out functions of automatic start/stop, data measurement, alarm protection and three "remote"(remote control, remote measure and remote communication).

DeepSea DSE6120MKII

The DSE 6120 MKII is an Auto Mains (Utility) Failure Control Module developed to provide a wide range of operating and monitoring features for single diesel gen-sets. The module includes USB, RS232 and RS485 ports, and can work with electronic and non-electronic engines. It can also be programmed to meet different solutions.

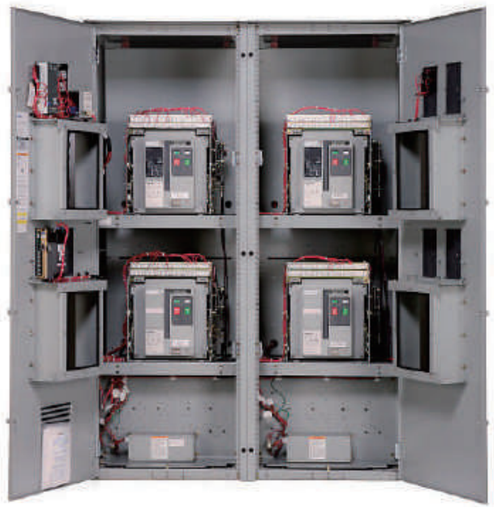
POWER GENERATOR

HF-SP Series Parallel Control System

The HF-SP series offers a range of custom-made generator control, monitoring, and synchronization panels, including:

- Panels for manual or automatic operation of diesel generators
- Synchronization, load distribution, and power management panels used for synchronizing multiple generators and connecting them to the local power grid
- Switchboards with a unique monitoring and control system that allows for remote monitoring and control of each generator through the internet and/or cellular communication networks.

HF-ATS Series Automatic Transfer Switches



Seconds can cost millions.

All HF-ATS series automatic transfer switches (ATS) monitor utility and generator voltages and automatically connect to the appropriate power source. We offer multiple types of custom automatic transfer switches, with different choices of circuit breakers, to suit your backup power needs.

Silent Generators

POWERFUL QUIETNESS FOR UNINTERRUPTED PEACE

- High performance motor-starting capability for heavy loads
- Forklit and overhard crane lifting options for easy transportation
- 4-point mounting system Designed to provide clean, quiet power with low vibration
- Powder coated and stainless steel housings
- Easy, single-side serviceability minimizes compartment space requirements

8kw -50kw single ring top hoisting with base forklift hole

50kw - 200kw double side double doors

200kw - 500kw ladder type single frame top hosting

500kw and above Container Type

Trailer Generators

TAKE THE POWER WHEREVER YOU GO

- 1-year / 1000-hour warranty available as a single source.
- The patented enclosure is easy to remove, making servicing simple and straightforward.
- The DeepSea DSE6120MKII controller is fully potted and encapsulated, ensuring high reliability.
- EPA emission options are available for non-road use.
- Multiple braking and lighting systems are available.

Single Shaft With Inertia Brake

Double Shaft With Inertia Brake

Double Shaft With Air Brake

Our Service

UNMATCHED CUSTOMER EXPERIENCE

Whatever your application, Haifeng Machinery has your power generation and electrical distribution system. For 15 years of experience with clients in more than 100 countries, we are the ideal choice as your single-source supplier for power generators. Our extensive product services are also available:

- Custom OEM/ODM service (light/deep customization options available)
- All products come with a 1-year/1000 service-hour warranty
- Site-specific replacement parts (air filter, fuel filter, and oil filters, etc.)
- Switchgear upgrades and retrofits
- Training services
- Site operation simulators

Standard or customized, Haifeng generators provide you with the most reliable capabilities to protect your facility from outages. We are there where power is needed the most.

Customer Notes

Customer Name Date