

BREMEN

**STANDBY
GENERATOR**

Taneko Group Company

PRODUCT KNOWLEDGE

Diesel Generator Sets

Faw Jiefang Automotive Wuxi Diesel Engine Works (Wuxi Diesel) was founded in 1943 and is one of the largest diesel engine manufacturers in China. The company covers more than 500,000 square meters and have \$617 million worth of fixed assets and \$1 billion worth of intangible assets. FAW generators are commonly used as stand-by or prime power generators. They are similar in quality, but slightly less costly than other brands. FAW is known for its reliable engine. Our FAW generator sets range begins with a 15 kVA up to 50 kVA.

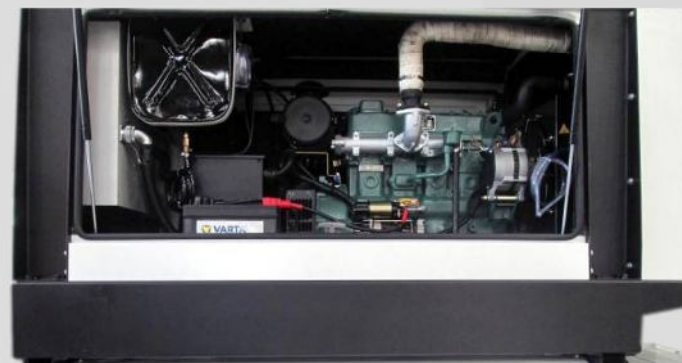


MAIN TECHNICAL PARAMETER

| Genset Model | kVA | | Fuel Cons 100% (L/H) | Dimension Approx. [cm] (L x W x H) | Weight Approx. (kg) | Engine Model | Cylinders | Displacement [L] | Gov | Freq (HZ) |
|--------------|-----|-----|----------------------|------------------------------------|---------------------|--------------|-----------|------------------|------|-----------|
| | ESP | PRP | | | | | | | | |
| BR15FW | 17 | 15 | 3.5 | 210 x 80 x 113 | 810 | 4DW81-23D | 4L | 2.27 | Mech | 50 |
| BR20FW | 22 | 20 | 4 | 210 x 80 x 113 | 810 | 4DW91-29D | 4L | 2.54 | Mech | 50 |
| BR30FW | 33 | 30 | 7 | 228 x 90 x 115 | 1070 | 4DX21-45D | 4L | 2.54 | Mech | 50 |
| BR40FW | 44 | 40 | 7.8 | 228 x 90 x 115 | 1070 | 4DX22-50D | 4L | 3.86 | Mech | 50 |
| BR50FW | 55 | 50 | 10 | 270 x 90 x 128 | 1210 | 4DX23-65D | 4L | 3.86 | Mech | 50 |

The quoted typical kVA / kWe ratings are based on typical generator efficiencies.
The kVA figures are calculated with a 0.8 power factor ; 1500 RPM (50 Hz) ; 220 / 380 V

- Compact size and double-stacking design for large loading quantities
- High reliability and suitable for numerous applications due to large list of optional extras
- Design to be multipurpose, strong and user friendly
- Easier Maintenance
- Tropical Radiators for high ambient temperature
- Lower Fuel Consumption





Shanghai Diesel Engine Co., Ltd. (SDEC), with SAIC Motor Corporation Limited as its main shareholder, is a large state-owned high-tech enterprise engaged in research and development and manufacture of engines, engine parts and generator sets, possessing a state-level technical center, a postdoctoral working station, world-level automatic production lines and a quality assurance system that meets passage cars standards. Its former was Shanghai Diesel Engine Factory that was established in 1947 and was restructured into a stock-shared company in 1993 with shares of A and B.

In its nearly 70 years' development, SDEC saw its products all over the world. SDEC now has seven series of high-quality diesel and natural gas engines, i.e. R, H, D, C, E, G and W series. These series engines with power outputs of 50 to 1,600 kW are mainly applied to trucks, buses, construction machinery, generator sets, marine application and agricultural equipment. SDEC keeps on making service accessible to customers and has built a country-wide sales and service support system on the basis of the national road network, which consists of 15 central offices, 5 regional parts distribution centers, more than 300 core service stations and over 2,000 service dealers.

| No. | SDEC Engine Family | Output Range (Prime Power Application) | | Cylinders |
|-----|---------------------------|---|------------------|-----------|
| | | kVA | kWe | |
| 1 | H Series | 60 - 187,5 | 48 - 150 | 4L - 6L |
| 2 | D Series | 200 - 250 | 160 - 200 | 6L |
| 3 | E Series | 350 | 280 | 6L |
| 4 | G Series - 13G/15G | 300 - 375 | 240 - 300 | 6L |
| 5 | G Series - 25G/27G | 450 - 675 | 360 - 540 | 12V |
| 6 | W Series | 750 - 887,5 | 600 - 710 | 6L |

The quoted typical kVA / kWe ratings are based on typical generator efficiencies.
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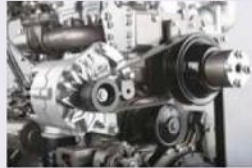
MAIN TECHNICAL PARAMETER

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|--------------|-------|--------------|----------------------|----------------------------|-------------|--------------|-----------|------------------|-----|-----------|
| | ESP | PRP | | | | | | | | |
| BR63FW | 70 | 63 | 16.5 | 191 × 89 × 117 | 940 | SC4H95D2 | 4L | 4.3 | E | 50 |
| BR80FW | 88 | 80 | 20.8 | 195 × 89 × 117 | 970 | SC4H115D2 | 4L | 4.3 | E | 50 |
| BR100FW | 110 | 100 | 24.3 | 206 × 93 × 118 | 1020 | SC4H160D2 | 4L | 4.3 | E | 50 |
| BR113FW | 124 | 112.5 | 27.3 | 206 × 93 × 118 | 1040 | SC4H160D2 | 4L | 4.3 | E | 50 |
| BR125FW | 137.5 | 125 | 31.1 | 210 × 93 × 119 | 1080 | SC4H180D2 | 4L | 4.3 | E | 50 |
| BR150FW | 165 | 150 | 35.7 | 240 × 94 × 138 | 1250 | SC7H230D2 | 6L | 6.5 | E | 50 |
| BR169FW | 185 | 169 | 39.1 | 240 × 94 × 138 | 1270 | SC7H230D2 | 6L | 6.5 | E | 50 |
| BR188FW | 206 | 187.5 | 42.5 | 245 × 94 × 138 | 1330 | SC7H250D2 | 6L | 6.5 | E | 50 |
| BR200FW | 220 | 200 | 48.6 | 252 × 98 × 150 | 1520 | SC8D280D2 | 6L | 8.27 | E | 50 |
| BR225FW | 247.5 | 225 | 54.3 | 252 × 98 × 150 | 1540 | SC9D310D2 | 6L | 8.82 | E | 50 |
| BR250FW | 275 | 250 | 59.2 | 271 × 104 × 149 | 1750 | SC9D340D2 | 6L | 8.82 | E | 50 |
| BR300FW | 330 | 300 | 70.3 | 316 × 123 × 167 | 2850 | SC13G420D2 | 6L | 12.88 | E | 50 |
| BR313FW | 343.5 | 312.5 | 73.3 | 316 × 123 × 167 | 2950 | SC13G420D2 | 6L | 12.88 | E | 50 |
| BR350FW | 385 | 350 | 77.3 | 318 × 110 × 160 | 2900 | SC12E460D2 | 6L | 11.8 | E | 50 |
| BR375FW | 412.5 | 375 | 88.8 | 316 × 123 × 167 | 2970 | SC15G500D2 | 6L | 14.16 | E | 50 |
| BR450FW | 500 | 450 | 107 | 353 × 140 × 200 | 4300 | SC25G610D2 | 12V | 25.8 | E | 50 |
| BR500FW | 550 | 500 | 121.4 | 355 × 140 × 200 | 4300 | SC25G690D2 | 12V | 25.8 | E | 50 |
| BR550FW | 605 | 550 | 133.5 | 355 × 140 × 200 | 4450 | SC27G755D2 | 12V | 26.6 | E | 50 |
| BR563FW | 620 | 562.5 | 133.5 | 355 × 140 × 200 | 4510 | SC27G755D2 | 12V | 26.6 | E | 50 |
| BR625FW | 687.5 | 625 | 146.7 | 355 × 140 × 200 | 4560 | SC27G830D2 | 12V | 26.6 | E | 50 |
| BR675FW | 737.5 | 675 | 159.2 | 355 × 140 × 200 | 4590 | SC27G900D2 | 12V | 26.6 | E | 50 |
| BR750FW | 825 | 750 | 177.2 | 440 × 157 × 220 | 7070 | SC33W990D2 | 6L | 32.8 | E | 50 |
| BR888FW | 975 | 887.5 | 209.9 | 440 × 157 × 220 | 7270 | SC33W1150D2 | 6L | 32.8 | E | 50 |

PRODUCT HIGHLIGHTS

H Series

The H series diesel engine is jointly designed by SDEC and RICARDO (UK) based on the market demand characteristics and by reference to the mature technologies of advanced engines in the world. The H series is a world-class power platform developed and made in accordance with GDPD development process and the SAIC MOTOR Manufacturing standards. Characterized by compact structure, wide power rang, high reliability, good economy and low vibration noise, the H Series is an ideal power to common-used generator sets of 50-150 kW.



D Series

The D series diesel engine is jointly designed by SDEC and AVL (Austria). In 2005, SDEC cooperated with Southwest Research Institute (SwRI) of U.S to carry out a reinforcing design and 4-valve upgrading. All the parts have been designed and verified based on 295 kW, providing a large margin of reliability in the applicable power range of 185-255 kW. The D Series is a lately-designed engine with advanced technical criteria among domestic mature engines. The engine has sold well for almost 20 years with over one million of units in the markets. The D series engine is an ideal power for common-used generator sets of 150-200 kW.



E Series

The E series diesel engine is jointly designed by SDEC and AVL (Austria). The E series is a brand new engine platform developed by referring to the current internationally advanced engine application technology and made according to the SAIC MOTOR manufacturing standards with world-class equipment. Its fuel system equipped with an electronically-controlled high-pressure common rail or a mechanical fuel injection pump with electronic governor is optional. The E series is safe, reliable and powerful. Its economy is superior to that of the similar products with the same power. The E series is applicable to medium-and-high-end common-used generator sets of 250-300 kW.





G Series - 25G/27G

The SC 25G/27G series engine is designed and improved by SDEC on the basis of the 12V135 diesel engine special for generator sets. The SC 25G/27G series engine is characterized by a major upgrade in product quality, reliability, economy, vibration, noise and appearance, especially the SC25/27G's stroke has been lengthened to 155mm. Most parts of the SC25G/27G series engine are interchangeable with those of the original model. Made in accordance with the SAIC MOTOR manufacturing standard, the SC13G/15G series is a preferred power for common-used generator sets of 160-300 kW.



W Series

The W series engine is newly designed and carefully made by SDEC for the demand of the generator sets market for high power with various technical criteria up to international advanced level. The W series engine is characterized by compact structure, high reliability, good economy, low noise and attractive appearance. Made in accordance with the SAIC MOTOR manufacturing standard, the engine is preferred power for generator sets.

Shanghai MHI Engine Co., Ltd

SME was established jointly by Shanghai Diesel Engine Co., Ltd and Mitsubishi Heavy Industries, Ltd.

The Company principally produces various models of engine of S6R2/S12R/S16R series which are mainly applied in land generator set, with the power ranging from 500kW to 2000kW.

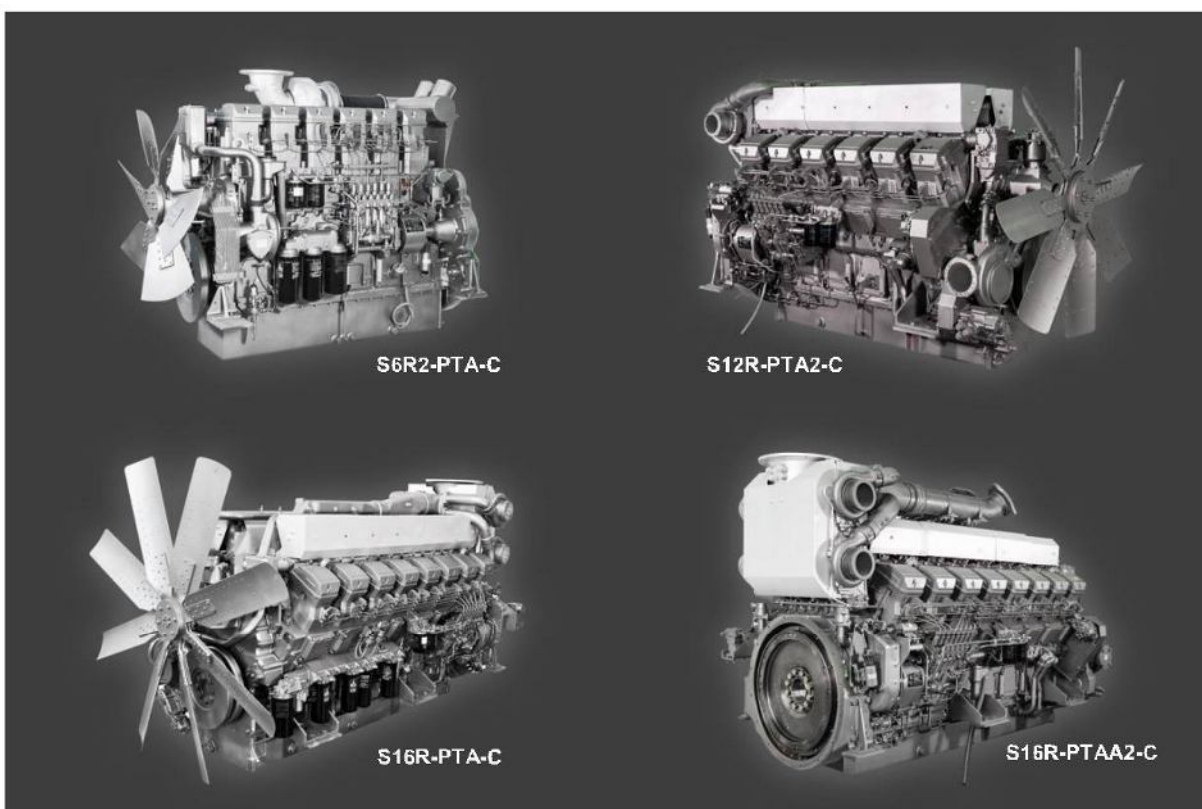
SR series products involves currently in the main medium and large size engines manufactured by Mitsubishi Heavy Industries, Ltd and applied in non-road industry. At present, the products are manufactured in local Japanese plant as well as French plant and are applied mainly in land power station, marine propulsion engine and auxiliaries. The products are well sold in European and American markets and are highly recognized by the users in China. The series diesel engines include the land power station meeting American EPA2 emission standard and marine diesel engine meeting IMO2 emission standard.

The Company is located at No.2630, Jungong Rd, Yangpu District of Shanghai City (located in the plant of Shanghai Diesel Engine Co., Ltd) and went into production in 2013 with the expected production program to the annual output of 5,000 sets of SR series by 2020.

| No. | Engine Family | Output Range (Prime Power Application) | | Cylinders | Displacement (L) |
|-----|----------------------|---|--------------------|-----------|---------------------|
| | | kVA | kWe | | |
| 1 | S6R2-C Series | 625 - 750 | 500 - 600 | L6 | 29.96 |
| 2 | S12R-C Series | 1250 - 1500 | 1000 - 1200 | V12 | 49.03 |
| 3 | S16R-C Series | 1600 - 2000 | 1280 - 1600 | V16 | 65.37 |

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MAIN TECHNICAL PARAMETER

| Genset Model | kVA | | Fuel Cons 100% (L/H) | Dimension [cm] (L x W x H) | Weight (kg) | Engine Model | Cylinders | Displacement [L] | Gov | Freq (HZ) |
|--------------|------|------|----------------------|----------------------------|-------------|--------------|-----------|------------------|-----|-----------|
| | ESP | PRP | | | | | | | | |
| BR625FW | 688 | 625 | 127 | 408 x 172 x 200 | 5150 | S6R2-PTA-C | 6L | 29.96 | E | 50 |
| BR660FW | 730 | 660 | 147 | 408 x 172 x 200 | 5150 | S6R2-PTA-C | 6L | 29.96 | E | 50 |
| BR725FW | 800 | 725 | 179 | 408 x 172 x 200 | 5606 | S6R2-PTAA-C | 6L | 29.96 | E | 50 |
| BR1250FW | 1375 | 1250 | 297 | 440 x 176 x 250 | 10335 | S12R-PTA-C | 12V | 49.03 | E | 50 |
| BR1350FW | 1485 | 1350 | 336 | 452 x 220 x 251 | 10835 | S12R-PTA2-C | 12V | 49.03 | E | 50 |
| BR1475FW | 1625 | 1475 | 350 | 452 x 220 x 251 | 12317 | S12R-PTAA2-C | 12V | 49.03 | E | 50 |
| BR1600FW | 1815 | 1600 | 364 | 547 x 220 x 251 | 13860 | S16R-PTA-C | 16V | 65.37 | E | 50 |
| BR1700FW | 1875 | 1700 | 388 | 547 x 220 x 251 | 14150 | S16R-PTA-C | 16V | 65.37 | E | 50 |
| BR1850FW | 2050 | 1850 | 460 | 547 x 220 x 251 | 14545 | S16R-PTA2-C | 16V | 65.37 | E | 50 |
| BR2000FW | 2200 | 2000 | 472 | 570 x 230 x 260 | 17000 | S16R-PTAA2-C | 16V | 65.37 | E | 50 |



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