

# SUPERWATT

Diesel Generators Powered by



Made in Germany

## DEUTZ RANGE OF STANDARD GENERATOR SETS SD260 - SD900S



**STAMFORD**  
power generation

- Voltage: 400V/230V
- Frequency: 50Hz
- Power factor: 0.8
- Phase: 3P4W

### MAIN SPECIFICATIONS OF GENERATOR SETS

| GENSET MODEL               | Continuous model | SD260   | SD280   | SD300     | SD345     | SD380     | SD408     | SD536     | SD640   | SD760      | SD815      |
|----------------------------|------------------|---------|---------|-----------|-----------|-----------|-----------|-----------|---------|------------|------------|
|                            | Standby model    | SD280S  | SD308S  | SD330S    | SD380S    | SD425S    | SD450S    | SD590S    | SD700S  | SD810S     | SD900S     |
| Continuous output (kW/kVA) |                  | 260/325 | 280/350 | 300/375   | 345/413.3 | 380/475   | 408/510   | 536/670   | 640/800 | 760/950    | 815/1018.8 |
| Standby output (kW/kVA)    |                  | 280/350 | 308/385 | 330/412.5 | 380/475   | 425/531.3 | 450/562.5 | 590/737.5 | 700/875 | 810/1012.5 | 900/1125   |

#### Rating Definitions

##### Continuous Power Model SWD with no Suffix

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

##### Standby Power Model SWD with Suffix (S)

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO8528-3) at 27°C.

### TECHNICAL DATA

| DIESEL ENGINE MODEL            | BF6M1015C   | BF6M1015C2 | BF6M1015CP | BF8M1015C | BF8M1015C2 | BF8M1015CP | TBD616V12G1                     | TBD616V12G4 | TBD616V16G1 | TBD616V16G2 |
|--------------------------------|---|------------|------------|-----------|------------|------------|---------------------------------|-------------|-------------|-------------|
| Engine Characters              | Water-cooled, "V" type, 4-cycle, direct injection, Wet cylinder liner, 1500rpm, Turbocharged  |            |            |           |            |            |                                 |             |             |             |
| Constant Output (kW)           | 285   | 315        | 338        | 380       | 402        | 448        | 576                             | 703         | 790         | 876         |
| Standby Output (kW)            | 314   | 345        | 365        | 418       | 459        | 490        | 657                             | 738         | 876         | 964         |
| Bore (mm) x Stroke (mm)        | 132x145   |            |            |           |            |            | 132x160                         |             |             |             |
| Cubic Capacity (Liters)        | 11.9  |            |            | 15.9      |            |            | 26.3                            |             | 35          |             |
| Piston Speed (m/s)             | 7.26  |            |            |           |            |            | 8                               |             |             |             |
| Compression Ratio              | 16.5:1  |            |            |           |            |            | 15:1                            |             |             |             |
| Speed Stability Bandwidth      | ± 0.5%  |            |            |           |            |            |                                 |             |             |             |
| Steady Governing Rate          | Electrical Governor ± 1%  |            |            |           |            |            |                                 |             |             |             |
| Acoustic Pressure              | 101   |            |            | 105       |            |            | 102                             | 104         | 105         | 106         |
| Exhaust Temperature            | 485°C   | 500°C      | 545°C      | 485°C     | 510°C      | 560°C      | 570°C                           | 590°C       | 550°C       | 560°C       |
| Exhaust Back Pressure          | 30mbar (maximum)  |            |            |           |            |            |                                 |             |             |             |
| Air Induction System           | Cartridge type dry air filter with restriction indicator, the max. Intake air restriction < 35mbar                                  |            |            |           |            |            |                                 |             |             |             |
| Lube Consumption               | 0.3% of fuel consumption  |            |            |           |            |            | 0.5% of fuel consumption        |             |             |             |
| Min. Oil Pressure Alarm        | 2.7 bar   |            |            |           |            |            |                                 |             |             |             |
| Lube Temperature / Capacity    | 130°C/34L   |            |            | 130°C/45L |            |            | 120°C/78L                       |             | 120°C/90L   |             |
| Electrical System              | 24 Volt system with battery charging alternator (55A/24V), axial type start motor (24V / 6.6kW), high capacity lead acid batteries. |            |            |           |            |            |                                 |             |             |             |
| Cooling System Volume          | 91L   | 95L        | 98L        | 102L      |            | 116L       | 80L                             |             | 110L        |             |
| Max. Water Temperature         | 108°C   |            |            |           |            |            | 100°C                           |             | 100°C       |             |
| Rating. Fuel Consumption       | 70.3l/h   | 78.5l/h    | 87.5l/h    | 94.3l/h   | 99.6l/h    | 118.7l/h   | 128l/h                          | 152l/h      | 182l/h      | 201.5l/h    |
| Heat Rejection to coolant (kW) | 158   | 140        | 171        | 202       | 211        | 237        | 195                             | 240         | 290         | 340         |
| Fan Cooling Air Flow (m³/h)    | 20952   | 20952      | 24120      | 24120     | 24120      | 33120      | 2638                            | 3000        | 3852        | 4240        |
| Intake Air Flow (l/s)          | 1170  | 1340       | 1386       | 1663      | 2092       | 1848       | 2638                            | 3000        | 3852        | 4240        |
| Exhaust Gas Flow (m³/h)        | 1500  | 1640       | 1700       | 1180      | 1500       | 1640       | 7150                            | 8400        | 10130       | 11300       |
| ALTERNATOR MODEL               | HCI444E   | HCI444F    | HCI444F    | HCI544C   | HCI544D    | HCI544E    | HCI534F                         | LVI634C     | LVI634E     | LVI634F     |
| Continuous Output (kW/kVA)     | 260/325   | 304/380    | 304/380    | 360/450   | 400/500    | 480/600    | 536/670                         | 640/800     | 800/1000    | 904/1130    |
| Power Efficiency               | 93.3%   | 93.0%      | 93.0%      | 94.1%     | 94.4%      | 94.8%      | 94.6%                           | 93.7%       | 94.3%       | 94.7%       |
| Voltage Regulation             | ± 1.0% with 4% engine governing   |            |            |           |            |            | ± 0.5% with PMG exciting system |             |             |             |
| Waveform Distortion            | No load < 1.5% and non-distorting balanced linear load < 5%   |            |            |           |            |            |                                 |             |             |             |
| THF / TIF                      | < 2% / < 50%  |            |            |           |            |            |                                 |             |             |             |

### DIMENSIONS AND WEIGHTS

| Genset Cont. MODEL | SD260 | SD280 | SD300 | SD345 | SD380 | SD408 | SD536 | SD640 | SD760 | SD815 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Length: mm         | 2968  | 3060  | 3060  | 3200  | 3200  | 3200  | 4656  | 4825  | 5370  | 5390  |
| Width: mm          | 1315  | 1515  | 1515  | 1515  | 1515  | 1515  | 1652  | 1556  | 1756  | 1960  |
| Height: mm         | 1923  | 1968  | 1985  | 1967  | 1967  | 1978  | 2138  | 2138  | 2380  | 2380  |
| Net Weight: kg     | 2300  | 2490  | 2540  | 2870  | 2970  | 3190  | 5460  | 5840  | 7120  | 7350  |

In line with our policy of continuous product development, we reserve the right to change specification without notice.