

FULL

GENERATOR

FG Series

SD Engine



15 KVA

220 KV

890 KVA

2500 KVA

SPECIFICATIONS

ENGINE

- SD heavy duty diesel engine
- 12V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP 21-23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis - ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

FG Series

SD Engine



| GROUP | MODEL | | FG 220 | FG 250 | FG 275 | FG 300 | FG 360 | FG 440 | FG 495 |
|------------------------------|---------------------|-------------------|-------------|------------|------------|------------|-----------|-----------|-------------|
| | Stand By | kVA | 220 | 250 | 275 | 300 | 360 | 440 | 495 |
| ENGINE | Prime | kW | 176 | 200 | 220 | 240 | 288 | 352 | 396 |
| | | kVA | 200 | 227 | 250 | 272 | 327 | 400 | 450 |
| | | kW | 160 | 182 | 200 | 218 | 261 | 320 | 360 |
| | | A | 288 | 327 | 360 | 392 | 470 | 576 | 648 |
| | Rated Current | | | | | | | | |
| | Engine | | SD | | | | | | |
| | Engine Model | | SD6L180TAD | SD6L206TAD | SD6L227TAD | SD6L263TAD | SDI3G420D | SDI5G500D | SD25G558TLD |
| | Number of Cylinders | | 6 - In-line | | | | | | |
| | Injection System | | Direct | | | | | | |
| | Compression Ratio | | 18:01 | 18:01 | 18:01 | 18:01 | 17:01 | 15,75 | 17:01 |
| Bore | mm | 114 | 114 | 114 | 114 | 135 | 135 | 135 | |
| Stroke | mm | 135 | 135 | 135 | 144 | 150 | 165 | 150 | |
| Displacement | lt | 8,27 | 8,27 | 8,27 | 8,82 | 12,88 | 14,2 | 25.8 | |
| Air Intake | | Turbo Intercooler | | | | | | | |
| Speed (RPM) | rpm | 1500 | | | | | | | |
| Oil Capacity | lt | 19 | 19 | 19 | 19 | 35 | 32,5 | 48 | |
| Standby Power | Kw / Hp | 180 / 245 | 206 / 280 | 227 / 309 | 263 / 355 | 308 / 419 | 373 / 503 | 410 / 555 | |
| Prime Power | Kw / Hp | 164 / 223 | 187 / 254 | 206 / 280 | 239 / 322 | 280 / 381 | 335 / 450 | 369 / 498 | |
| Fuel Type | | Euro Diesel | | | | | | | |
| Governor System | | Electronic | | | | | | | |
| Cooling System | | Water Cooling | | | | | | | |
| Coolant Capacity | lt | 48 | 48 | 48 | 48 | 60 | 60 | 140 | |
| Fuel Consumption (lt / h) | Full Load | 41 | 46,2 | 52,7 | 59,1 | 70 | 83,7 | 101,2 | |
| | 75% Load | 31,5 | 35,5 | 39,8 | 46,2 | 52,5 | 62,8 | 77,2 | |
| | 50% Load | 21,3 | 23,7 | 26,4 | 30,7 | 35 | 41,9 | 52,2 | |
| Alternator Model | | FLY-274H | FLY-274J | FLY-274K | FLY-314D | FLY - 314E | FLY-314G | FLY-354C | |
| Frequency | Hz | 50 | | | | | | | |
| Power | kVA | 220 | 250 | 275 | 327 | 360 | 440 | 495 | |
| Voltage | V | 230 / 400 | | | | | | | |
| Number of Phases | | 3 | | | | | | | |
| Aut. Voltage Regulator (AVR) | | AS440 | | | | | | | |
| Voltage Regulation | | ±1% | | | | | | | |
| Insulation Class | | H | | | | | | | |
| Protection Standard | | IP22-IP23 | | | | | | | |
| Power Factor | Cos | 0,8 | | | | | | | |
| Weight (Silent) | Kg | 2260 | 2280 | 2530 | 2600 | 3890 | 4030 | 5310 | |
| Weight (Open) | Kg | 1920 | 1940 | 2190 | 2260 | 3350 | 3490 | 4620 | |
| Width (Silent) | mm | 1200 | 1200 | 1200 | 1200 | 1500 | 1500 | 1900 | |
| Length (Silent) | mm | 3500 | 3500 | 3500 | 3500 | 4300 | 4300 | 4800 | |
| Height (Silent) | mm | 1850 | 1850 | 1850 | 1850 | 2200 | 2200 | 2400 | |
| Fuel Tank Capacity | lt | 360 | 360 | 360 | 360 | 600 | 600 | 1450 | |

1) Standby power: The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage. Overloading isn't permissible.

2) Prime Power: The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.



| GROUP | MODEL | | FG 540 | FG 585 | FG 635 | FG 690 | FG 740 | FG 825 | FG 890 |
|-------|------------------------------|-----------|-------------------|-------------|-------------|-------------|-------------|--------------|--------------|
| | | Stand By | kVA | 540 | 585 | 635 | 690 | 740 | 825 |
| | Prime | kW | 432 | 468 | 508 | 552 | 592 | 660 | 712 |
| | | kVA | 491 | 532 | 577,2 | 627 | 672 | 750 | 809 |
| | | kW | 392 | 425 | 461,7 | 501 | 537 | 600 | 647 |
| | Rated Current | A | 707 | 766 | 831 | 902 | 967 | 1080 | 1164 |
| | Engine | | SD | | | | | | |
| | Engine Model | | SD27G612TLD | SD27G700TLD | SD27G755TLD | SD29G843TLD | SD29G925TLD | SD30GI020TLD | SD30GI115TLD |
| | Number of Cylinders | | 12 | | | | | | |
| | Injection System | | Direct | | | | | | |
| | Compression Ratio | | 16:01 | 16:01 | 16:01 | 17:6:1 | 17:6:1 | 17:6:1 | 17:06:01 |
| | Bore | mm | 135 | 135 | 135 | 138 | 138 | 138 | 138 |
| | Stroke | mm | 155 | 155 | 155 | 158 | 158 | 168 | 168 |
| | Displacement | lt | 26,6 | | | | | | |
| | Air Intake | | Turbo Intercooler | | | | | | |
| | Speed (RPM) | rpm | 1500 | | | | | | |
| | Oil Capacity | lt | 48 | 48 | 48 | 65 | 65 | 65 | 65 |
| | Standby Power | Kw / Hp | 450 / 607 | 510 / 688 | 555 / 750 | 620 / 837 | 680 / 918 | 750 / 1015 | 820 / 1107 |
| | Prime Power | Kw / Hp | 405 / 546 | 465 / 628 | 500 / 675,6 | 558 / 753 | 612 / 826 | 675 / 912 | 738 / 996 |
| | Fuel Type | | Euro Diesel | | | | | | |
| | Governor System | | Electronic | | | | | | |
| | Cooling System | | Water Cooling | | | | | | |
| | Coolant Capacity | lt | 151 | | | | | | |
| | Fuel Consumption (lt / h) | Full Load | 113,6 | 125,6 | 135,2 | 143,2 | 156,9 | 173,4 | 187,1 |
| | | 75% Load | 87,2 | 96,7 | 101,4 | 109,2 | 119,2 | 132,1 | 142,3 |
| | | 50% Load | 58,7 | 64,2 | 76,1 | 73,5 | 79,8 | 88,3 | 95,6 |
| | Alternator Model | | FLY354D | FLY354E | FLY354E | FLY354FS | FLY354F | FLY404A | FLY404G |
| | Frequency | Hz | 50 | | | | | | |
| | Power | kVA | 550 | 660 | 660 | 690 | 740 | 825 | 890 |
| | Voltage | V | 230 / 400 | | | | | | |
| | Number of Phases | | 3 | | | | | | |
| | Aut. Voltage Regulator (AVR) | | AS440 | | | | | | |
| | Voltage Regulation | | ±1% | | | | | | |
| | Insulation Class | | H | | | | | | |
| | Protection Standard | | IP 22-23 | | | | | | |
| | Power Factor | Cos | 0,8 | | | | | | |
| | Weight (Silent) | Kg | 5420 | 5560 | 5570 | 6400 | 6480 | 6560 | 6560 |
| | Weight (Open) | Kg | 4740 | 4870 | 4880 | 5520 | 5600 | 5680 | 5680 |
| | Width (Silent) | mm | 1900 | 1900 | 1900 | 2200 | 2200 | 2200 | 2200 |
| | Length (Silent) | mm | 4800 | 4800 | 4800 | 5600 | 5600 | 5600 | 5600 |
| | Height (Silent) | mm | 2400 | 2400 | 2400 | 2600 | 2600 | 2600 | 2600 |
| | Fuel Tank Capacity | lt | 1450 | 1450 | 1450 | 1520 | 1520 | 1520 | 1520 |

Topçular A.Ş. reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.

FULL

GENERATOR

D 300

Web based Next Generation Controller



SPECIFICATIONS

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Easy USB firmware upgrade
- IP65 rating with optional gasket

MEASUREMENTS

- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAr, pf
- Engine speed
- Battery voltage

FUNCTIONALITIES

- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller
- Remote display panel

COMMUNICATION

- USB Device
- RS-232 (2400-57600baud)
- J1939-CANBUS
- Geo-locating through GSM
- GPS support (RS-232)
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU
- Modbus TCP/IP



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