

MAIN FEATURES

Limited number of screws outside the canopy	Welded frame with integrated fuel tank and drip tray, protecting environment from leakage of the fluid
Limited number of screws outside the canopy	Wide range of fuel tank capacities available
Electrical box protected by genset canopy, with controller display	Possibility of increased protection against fuel leakage – fuel tank separated from the frame
Cable entry protected by rubber cover	Key locked fuel inlet outside of the canopy. Optionally fuel inlet inside
Power socket available outside of the canopy	Anchoring points covered by external covers
Easy maintenance access to major components	Crane or pallet truck lifting
High quality noise insulation materials	High quality mufflers for exhaust system



GENERAL DATA

Model	FDG 250 VS	<p>Nominal power P.R.P.: Prime power available in variable load application in accordance with ISO 8528, 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation. Average power consumption should not exceed 70% P.R.P for each 24h of work.</p> <p>Stand-by power E.S.P.: Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 500 operation hours per year, average power consumption should not exceed 80% E.S.P for each 24h</p> <p>Remark: All parameters are given for reference conditions: ambient air temperature up to 40 C and site altitude above sea level 1000m</p> <p>Norms and directives:</p> <ul style="list-style-type: none"> • Machinery directive 2006/42/WE • Low voltage directive 2006/95/WE • EC directive 2004/108/WE • Noise directive 2000/14/WE • Emission directive 97/68/WE • ISO 8528-1/2005, PN-ISO 8528-5/2005 • PN-EN 12601 • PN-EN 60204-1
Standby power E.S.P. [kVA] / [kW]	275,0 / 220,0	
Prime power P.R.P. [kVA] / [kW]	250,0 / 200,0	
Prime current P.R.P [A]	361,0	
Frequency [Hz]	50	
Voltage [V]	400	
Exhaust emission	stage II	
Fuel type	Diesel (EN 590)	
Fuel consumption - 50% load [l/h]	31,8	
- 75% load [l/h]	44,0	
- 100% load [l/h]	55,4	
- 110% load [l/h]	60,6	
Standard fuel tank capacity [l]	410	
Autonomy with 100% load [h]	7,4	
Weight without fuel [kg]	2900	
Dimensions L x W x H [mm]	3650 x 1512 x 2226	
Guaranteed noise power Lwa [dBA]	97	
Acoustic pressure Lpa (dla 7m) [dBA]	68,1 ± 2,1	

STANDARD CONTROLLER

Controller type: AMF25
Easy to operate, intuitive graphical interface
Real time clock with battery supply
AMF function available
Flexible event based history with up to 119 events
3 Phase generator current measurement
Generator and Mains phase voltage measurement
Active/reactive power measurement
Active and reactive energy counter
Running hours counter
Battery charging alternator circuit connection
Fuel level measurement
Generator protection (over/under frequency, voltage, overcurrent)
Communication with ECU supporting CAN J1939 standard
Communication interface RS 485 and RS 232 supporting Modbus RTU (IL-NT RS232-485 module required)
GSM modem / wireless internet (IL-NT GPRS module required)
Internet/Ethernet communication (IB-Lite module required)
InteliMonitor software for single gen-set view
WebSupervisor software for Android mobile devices or PC's for fleet management
Active SMS or e-mail (IL-NT GPRS or IB-Lite module required)


ENGINE

Brand	Volvo
Type	TAD734GE
Made in	Germany
Engine power [kW]	219,0
Emission standard*	stage II
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G3
Displacement [l]	7,2
No of cylinder	6
Fuel system	common rail
Electrical system [V]	24
Coolant	Volvo Coolant VCS
Cooling system capacity [l]	32,0
Engine oil	Shell Rimula R4L
Oil pan capacity [l]	29,0
Fuel type	Diesel (EN 590)
Fuel consumption at 75% load [l/h]	44,0
Fuel consumption at 100% load [l/h]	55,4

* According directive 97/68/WE non road mobile machinery engine emission.

** According PN-ISO 8528-5/2005

ALTERNATOR

Brand	Sincro*
Type	SK250LS
Made in	Croatia
Power (40 °C, 1000m a.m.s.l.) [kVA]	250,0
Stand by power (27 °C, 1000m a.m.s.l.) [kVA]	273,0
Efficiency [%]	92,6
Voltage regulator type	Analog AVR
Voltage accuracy [%]	+/- 1
IP protection	IP 23
Insulation class	H
Total harmonic content THD [%]	< 2,0
Reactance Xd'' [%]	9,5

* STAMFORD or other alternator suppliers on request. Genset general data may change in this case.



FOCUSSED ON GENERATORS ONLY

Power Generator FDG 250 VS

STANDARD EQUIPMENT

Controller ComAp AMF25	✓
Controller switch	✓
3 Pole GCB Eaton LZMN3-AE400	✓
Shunt GCB release coil	✓
Analog AVR	✓
Acoustic alarm	✓
Emergency stop button	✓
Starting batteries 2x 180 Ah	✓
Battery charger	✓
Engine preheating with thermostat	✓
Engine oil Shell Rimula R4L	✓
Oil draining hand pump	✓
Oil low pressure switch	✓
Oil pressure sensor	✓
Engine high temperature switch	✓
Engine high temperature sensor	✓
Electronic engine speed governor	✓
Fuel tank integrated in frame with drip tray	✓
Fuel inlet outside of the canopy with lock	✓
Fuel level measurement	✓
Fuel filter with water separator	✓
Exhaust compensator and silencer	✓
Coolant Volvo Coolant VCS	✓
Coolant inlet outside of the canopy	✓
Engine and alternator vibro isolators	✓
Silenced canopy made with Al-Zn	✓
Standard color RAL 7032	✓
Transportation brackets	✓

OPTIONAL EQUIPMENT

Digital voltage reg. 3 phase sensing, accuracy $\pm 0,5\%$	✓
Alternator with PMG	✓
4 Pole GCB Schneider NSX Micrologic 2.3	✓
Fuel and retention pump	✓
Drip space level sensor	✓
Dedicated (non-standard) fuel tank *	✓
External fuel tank 1 000 – 10 000 l	✓
Fuel tank filling pump and shut-off valve	✓
Battery disconnection switch	✓
Power output – power lock type	✓
Power socket box with appropriate protections *	✓
Transfer switch controlled by generator controller	✓
ATS with ATS controller	✓
GPRS communication card	✓
Ethernet card	✓
RS 485, RS 232 card	✓
Remote display	✓
Nonstandard canopy color	✓

*according to individual agreement

**INSTALLATION GUIDELINES**

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x185mm ²
Recommended cable for do 30m generator heater supply	Flexible 3x2,5mm ²
*For additional cabale connection with FOGO ATS see ATS wiring diagram	
Exhaust pipe min diameter (max. 7 m, 4 bends)	88,9 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	114,3 mm

MAINTENANCE GUIDELINES

Fuel filters replacement	500 h / 1 year
Oil replacement	After first 100h, then every 500 h / 1 year
Oil filters replacement	After first 100h, then every 500 h / 1 year
Coolant replacement	1000 h / 2 years
Battery replacement	2 years
Electrical installation supervising	According to local requirements, at least once per year

WARRANTY

Back-up power generators	60 months up to 1000 working hours, under condition of required maintenance according to the warranty conditions
Continuous work generators	12 months up to 1000 working hours