

### MAIN FEATURES

Compact canopy, sized for EUR-pallet transportation	Welded frame with integrated fuel tank inside and drip tray, protecting environment from leakage of the fluid.
Limited number of screws outside the canopy	High quality mufflers for exhaust system.
Very simple electrical connection	Generator and ATS control integrated in one box
Weather proof canopy, made of steel with AL Zn anticorrosion coating	Key locked fuel inlet outside of the canopy, fuel inlet inside canopy available as an option
High quality noise insulation materials.	Anchoring points covered by external covers.
Easy maintenance access to major components.	Crane or pallet truck lifting.



### GENERAL DATA

Model	FDC 15 MSA	<b>Nominal power P.R.P.:</b>
Standby power E.S.P. [kVA] / [kW]	16,2 / 12,9	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.
Prime power P.R.P. [kVA] / [kW]	14,7 / 11,8	<b>Stand-by power E.S.P.:</b>
Prime current P.R.P [A]	21,2	Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 200 operation hours per year, average power consumption should not exceed 70% E.S.P for each 24h
Frequency [Hz]	50	<b>Remark:</b>
Voltage [V]	400	Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1
Exhaust emission	non-emission	<b>Norms and directives:</b>
Fuel type	Diesel (EN 590)	<ul style="list-style-type: none"> <li>• Machinery directive 2006/42/WE</li> <li>• Low voltage directive 2006/95/WE</li> <li>• EC directive 2004/108/WE</li> <li>• Noise directive 2000/14/WE</li> <li>• Emission directive 97/68/WE</li> <li>• ISO 8528-1/2005, PN-ISO 8528-5/2005</li> <li>• PN-EN 12601</li> <li>• PN-EN 60204-1</li> </ul>
Fuel consumption - 50% load [l/h]	2,7	
- 75% load [l/h]	3,4	
- 100% load [l/h]	4,3	
- 110% load [l/h]	4,7	
Standard fuel tank capacity [l]	37	
Autonomy with 100% load [h]	8,6	
Weight without fuel [kg]	450	
Dimensions L x W x H [mm]	1185 x 790 x 1008	
Guaranteed noise power Lwa [dBA]	96	
Acoustic pressure Lpa (dla 7m) [dBA]	66,6 ± 2	

**STANDARD CONTROLLER**

Controller type: FOGO ATS 206
Size 420 x 275 x 180
Digital display
Emergency stop button
Battery charging circuit
Mains – Generator transfer switch
Manual and Auto mode available
1 Phase generator current measurement
Mains and Generator voltage measurement
Generator power measurement (1 phase)
Running hours counter
Battery voltage measurement
Generator protection (over/under frequency, voltage, overcurrent)
Engine protection (high temperature, low pressure, low fuel)
Remote Start
Scheduled test run
Alarm messages and electrical measurements displayed
Generator and Mains status diodes


**ENGINE**

Brand	Mitsubishi
Type	S4L2-61SD
Made in	India
Engine power [kW]	13,9
Emission standard*	non-emission
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G2
Displacement [l]	1,8
No of cylinder	4
Fuel system	
Electrical system [V]	12
Coolant	Anti Freeze
Cooling system capacity [l]	2,5
Engine oil	Shell Rimula R4L
Oil pan capacity [l]	6,0
Fuel type	Diesel (EN 590)
Fuel consumption at 75% load [l/h]	3,4
Fuel consumption at 100% load [l/h]	4,3

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

\*\* According PN-ISO 8528-5/2005

**ALTERNATOR**

Brand	Sincro
Type	SK160MA
Made in	Italy
Power (40 °C, 1000m a.m.s.l.) [kVA]	17,5
Stand by power (27 °C, 1000m a.m.s.l.) [kVA]	19,3
Efficiency [%]	84,5
Voltage regulator type	AVR analog
Voltage accuracy [%]	+/- 1
IP protection	IP 23
Insulation class	H
Total harmonic content THD [%]	<4,0
Reactance Xd'' [%]	12,6

**STANDARD EQUIPMENT**

3 Pole GCB Eaton FAZ-Z25/3	✓
Emergency stop button	✓
Starting batteries 75 Ah	✓
Battery charging circuit	✓
Glow plugs	✓
Engine oil Shell Rimula R4L	✓
Oil low pressure switch	✓
Engine high temperature switch	✓
Welded frame with drip tray	✓
Fuel inlet outside of the canopy with lock	✓
Fuel low level switch	✓
Coolant inlet outside of the canopy	✓
Coolant draining valve	✓
Engine and alternator vibro isolators	✓
Silenced canopy made with Al-Zn	✓
Standard color RAL 7032	✓
Transportation brackets	✓

**INSTALLATION GUIDELINES**

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x6mm <sup>2</sup>
Recommended cable for do 30m generator heater supply	Flexible 12x1,5mm <sup>2</sup>
*For additional cabale connection with FOGO ATS see ATS wiring diagram	
Exhaust pipe min diameter (max. 7 m, 4 bends)	48,3 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	48,3 mm

**MAINTENANCE GUIDELINES**

Fuel filters replacement	250 h / 1 year
Oil replacement	After first 50h, then every 250 h / 1 year
Oil filters replacement	After first 50h, then every 250 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