

**MAIN FEATURES**

Silenced canopy made of steel with Al-Zn anticorrosion coating	1500 rmp, liquid cooled engine
Generator sized for EUR-pallet transportation	Glow plugs facilitating engine start in low temperatures
Two sets can be loaded on one pallet	Brushless alternator with electronic voltage regulator, accuracy +/- 1%
Easy maintenance access through wide doors.	Plug & play electrical connection
Fuel inlet inside the canopy, protected by lockable doors.	Automatic and manual mode of operation
Anchoring points covered by external covers.	Battery charger
Rigid radiator mounting, isolating from engine vibrations	


**GENERAL DATA**

Model	FDC 10 MSA	<b>Nominal power P.R.P.:</b>	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.
Standby power E.S.P. [kVA] / [kW]	10,7 / 8,5	<b>Stand-by power E.S.P.:</b>	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
Prime power P.R.P. [kVA] / [kW]	9,7 / 7,8	<b>Remark:</b>	Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1
Prime current P.R.P [A]	14,0	<b>Norms and directives:</b>	<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>
Frequency [Hz]	50		
Voltage [V]	400		
Exhaust emission	<19kW – not covered by Emission Directive		
Fuel type	Diesel (EN 590)		
Fuel consumption - 50% load [l/h]	1,9		
- 75% load [l/h]	2,5		
- 100% load [l/h]	3,1		
- 110% load [l/h]	3,4		
Standard fuel tank capacity [l]	40		
Autonomy with 100% load [h]	12		
Weight without fuel [kg]	420		
Dimensions L x W x H [mm]	1185 x 780 x 935		
Guaranteed noise power Lwa [dBA]	96		
Acoustic pressure Lpa (dla 7m) [dBA]	66,8 ± 2		

### CONTROL BOX

Controller type: FOGO AT 206
Digital display
Manual and Auto mode available
Generator current measurement (1 phase)
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
Size 420 x 275 x 180



### ENGINE

Brand	Mitsubishi
Type	S3L2-61SD
Made in	India
Engine power [kW]	9,7
Emission standard*	<19kW (not limited)
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G2
Displacement [l]	1,3
No of cylinder	3
Electrical system [V]	12
Cooling system capacity [l]	1,8
Oil pan capacity [l]	4,2
Fuel type	Diesel (EN 590)

### ALTERNATOR

Brand	Sincro
Type	SK160CA
Made in	Italy
Power (40 °C, 1000m a.m.s.l.) [kVA]	11,0
Stand by power (27 °C, 1000m a.m.s.l.) [kVA]	12,1
Efficiency [%]	80,3
Voltage regulator type	DVR, digital
Voltage accuracy [%]	± 1
IP protection	IP 23
Insulation class	H
Total harmonic content THD [%]	<3,0
Reactance Xd'' [%]	12,7

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

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



# FOCUSSED ON GENERATORS ONLY

## Power Generator FDC 10 MSA

### STANDARD EQUIPMENT

S3L2-61SD Mitsubishi engine	✓
Glow plugs	✓
Engine oil Shell Rimula R4L	✓
Oil low pressure switch	✓
Engine high temperature switch	✓
Coolant Anti Freeze	✓
Coolant draining valve	✓
Coolant inlet outside of the canopy	✓
Starting batteries 72 Ah	✓
SK 160 CA Sincro Alternator	✓
Digital 3 phase AVR	✓
3 / 4 Pole GCB Z16	✓
FOGO AT 206 control box	✓
Mains – Generator automatic transfer	✓
Emergency stop button (AT and generator)	✓
Battery charging circuit	✓
Silenced canopy made with Al-Zn	✓
Standard color RAL 7032	✓
Fuel inlet inside the canopy, protected by lockable doors.	✓
Fuel low level switch	✓
Engine and alternator vibro isolators	✓

### INSTALLATION GUIDELINES

Recommended cable for up to 30m power cable way	Flexible 5x6mm <sup>2</sup>
Recommended cable for control connection	Flexible 12x1,5mm <sup>2</sup> -

### 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
Fuel filters replacement	250 h / 1 year

### WARRANTY

Back-up power generators	12 months up to 1000 working hours
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Datasheet could be changed without notification

[www.fogo.pl](http://www.fogo.pl)

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