

MAIN FEATURES

Easy maintenance access – all canopy panels easy detachable.	1500 rpm, liquid cooled engine.
Central lifting point.	Brushless alternator with digital voltage regulator, accuracy $\pm 0,5\%$.
Reinforced canopy frame construction equipped with rubber bumpers.	ComAp IL-NT AMF25 controller, manual, automatic and AMF modes.
Canopy panels made of steel with AL Zn anticorrosion coating.	Socket box and heter/battery charger supply plug.
Wide range of standard equipment.	Bus bar power connection
High quality mufflers for exhaust system.	Welded frame with drip-tray.
Fuel inlet inside the canopy, protected by key locked canopy door.	Fuel tank separated from the frame, installed in drip-tray – increased environmental protection.



the picture above present product with optional components that are not included in standard version of a product

GENERAL DATA

Model	FDR 100 B3S	Nominal power P.R.P:
Standby power E.S.P. [kVA] / [kW]	110,0 / 88,0	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]	100,0 / 80,0	Stand-by power E.S.P.:
Prime current P.R.P [A]	144,0	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 80% E.S.P for each 24h
Frequency [Hz]	50	Remark:
Voltage [V]	400	All parameters are given for reference conditions: ambient air temperature up to 40 C and site altitude above sea level 1000m
Exhaust emission	stage IIIA	Norms and directives:
Fuel type	Diesel (EN 590)	– Machinery directive 2006/42/WE
Fuel consumption - 50% load [l/h]	13,4	– Low voltage directive 2006/95/WE
- 75% load [l/h]	19,1	– EC directive 2004/108/WE
- 100% load [l/h]	24,6	– Noise directive 2000/14/WE
- 110% load [l/h]	27,0	– Emission directive 97/68/WE
Standard fuel tank capacity [l]	290	– ISO 8528-1/2005, PN-ISO 8528-5/2005
Autonomy with 100% load [h]	11,8	– PN-EN 12601
Engine control voltage [V]	12	– PN-EN 60204-1
Weight without fuel [kg]	1900	
Dimensions L x W x H [mm]	3069 x 1249 x 1982	
Guaranteed noise power Lwa [dBA]	97	
Acoustic pressure Lpa (dla 7m) [dBA]	66,8 \pm 2	

STANDARD CONTROLLER

Controller type: IL-NT AMF 25
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	JCB
Type	448TAG-92
Made in	Great Britain
Engine power [kW]	87,4
Emission standard*	stage IIIA
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G2
Displacement [l]	4,8
No of cylinder	4
Fuel system	direct injection
Electrical system [V]	12
Cooling system capacity [l]	18,5
Oil pan capacity [l]	14,0
Fuel type	Diesel (EN 590)

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

** According PN-ISO 8528-5/2005

ALTERNATOR

Brand	Sincro
Type	SK225MN
Made in	Croatia
Power (40 °C, 1000m a.m.s.l.) [kVA]	100,0
Power (27 °C, 1000m a.m.s.l.) [kVA]	107,0
Efficiency [%]	91,3
Voltage regulator type	digital AVR
Voltage accuracy [%]	±0,5
IP protection	IP 23
Insulation class	H
Total harmonic content THD [%]	< 2,5
Reactance Xd' [%]	11,1

**FOCUSED ON GENERATORS ONLY****Power Generator FDR 100 B3S****STANDARD EQUIPMENT****OPTIONAL EQUIPMENT**

JCB 448TG-92 engine	✓	Heavy duty frame (HD)	✓
Glow plugs	✓	– Forklift brackets	
Oil low pressure switch	✓	– Towing brackets	
Engine high temperature switch	✓	Galvanised HD frame	✓
Engine heater with thermostat	✓	Simplified operator interface: START, STOP, POWER ON/OFF, ALARM	✓
Engine oil Shell Rimula R4L	✓	Fuel inlet outside of the canopy with lock	✓
Engine fluids and fuel draining hand pump	✓	External fuel tank connection	✓
Fuel filter with water separator	✓	4 Pole GCB Schneider NSX Micrologic 2.3	✓
Coolant Anti Freeze	✓	Transfer switch controlled by generator controller	✓
Coolant inlet through the top of the canopy	✓	Transfer switch with ATS controller	✓
Coolant draining valve	✓	GPRS communication card	✓
Starting batteries 120Ah	✓	Ethernet card	✓
Battery charger	✓	RS 485, RS 232 card	✓
Battery disconnection switch	✓	Certified trailer with straight bar	✓
Sincro SK225MN alternator	✓	Customization on request	
Digital voltage reg. 3 phase sensing	✓		
3 Pole GCB Schneider NSX 160 Micrologic 2.2	✓		
Shunt GCB release coil	✓		
Bar connection	✓		
Power socket box with appropriate protections - 400V: 125A, 63A, 32A, 16A - 230V: 32A, 16A,	✓		
Residual current protection relay	✓		
ComAp IL-NT-AMF25 controller	✓		
Controller switch	✓		
Acoustic alarm	✓		
Emergency stop button	✓		
Silenced canopy made with Al-Zn	✓		
Standard color RAL 7032	✓		
Fuel tank installed in drip tray	✓		
Fully welded frame with drip tray	✓		
Fuel inlet inside the canopy	✓		
Drip space level sensor	✓		
Fuel level measurement	✓		
Engine and alternator vibro isolators	✓		
Exhaust compensator and silencer	✓		
Central lifting point	✓		



FOCUSED ON GENERATORS ONLY

Power Generator FDR 100 B3S

INSTALLATION GUIDELINES

Power terminal	Busbar
Recommended cable for up to 30m power cable way	Flexible 5x50mm ²
Recommended cable for do 30m generator heater supply	Flexible 3x2,5mm ²

*For additional cable connection with FOGO ATS see ATS wiring diagram

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

Continuous work generators	12 months up to 1000 working hours
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