



PRIME POWER (P.R.P.) (ISO 8528):

Prime Power is available for an unlimited number of annual hours in variable load application in accordance with ISO 8528, A 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation.

STAND-BY POWER (L.T.P.) (ISO 8528):

Standby Power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, limited to 500 operation hours per year

NOTE:

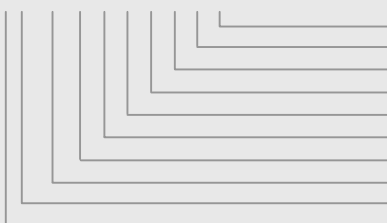
All parameters are given for reference conditions: ambient air temperature up to 40 °C and site altitude above sea level 1000m.

STANDARD WARRANTY

Prime Power – 12 months

GENERATING SET DESCRIPTION

FI 90 N A S C G P L



GENERAL DATA		
Standby Power L.T.P. (cos φ = 0,8)	kVA / kW	93,5 / 74,8
Prime Power P.R.P. (cos φ = 0,8)	kVA / kW	85 / 68
Nominal current	Amps	122,4
Nominal voltage	V	230/400
Frequency	Hz	50
ENGINE	IVECO	NEF45 TM1A
Emission standard	STAGE	2
Engine speed	rpm	1500
Class 8528 / engine governor	G2	MECHANICAL
Engine speed regulation	%	± 2
Cylinder configuration	4	IN LINE
Fuel	-	Diesel EN 590
Cooling type	LIQUIDE / AIR	ANTIFREEZE + AIR
Displacement	l	4,5
Engine power PRP ISO 3046	kW	77
Battery charging alternator voltage	V	12
ALTERNATOR	SINCRO SK225MM	
Type	Brushless, self exciting, synchronic	
Pole / Connecting type	4 / star Y	
Insulation class	H	
Protection grade	IP 21	
Voltage regulation type	ELECTRONIC AVR BL4	
Voltage regulation	±1%	
Short circuit current capacity	>300% I _n	
Waveform distortions THD	< 2, 5%	
Reactances Xd"	-* %	

L - Light tower
P - Generating set mounted on a trailer
G - Engine preheating for cold start
C - Silent canopy, CC – Super silent canopy, no letter open version mounted on a base frame
S - With Automatic Transfer Switches (ATS)
A - Automatic start, R - Manual start
N – Synchronization with main, P – Synchronization with other genset
Prime power kVA
Engine: V -Volvo, I - Iveco, M - Mitsubishi, B - JCB, U - MTU, P-Perkins, D-Doosan
FOGO Generating set

FI 90

INSTALLATION GUIDELINE

Power output connection	3 phase plug	Amps	125
Power output cables	elastic cable	mm ²	5x70(≤30m)
ATS control connection	elastic cable	mm ²	7x1,5 (≤30m)
Preheating, battery charger ect	elastic cable	mm ²	3x2,5 (≤30m)

Above 30 m connection cables– please contact technical department
*** NOTE: For reference only***

ATS box overall size (connection from the bottom)	mm	1200/600/300 wall mouthed
Engine exhaust outlet diameter	mm	88,9
Exhaust pipe diameter (max. 7m, 4 elbows)	mm	88,9
Exhaust pipe diameter (max. 15m, 4 elbows)	mm	101,6

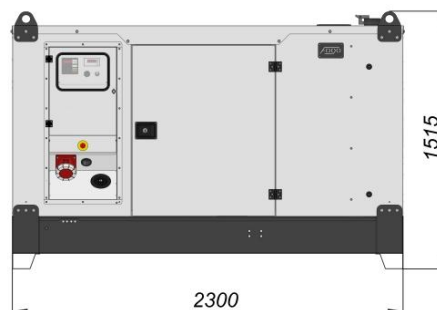
OPEN VERSION

Dimensions(LxWxH)	mm	2300x953x 1410
Weight (without fuel)	kg	1170
Fuel tank capacity	liters	140
Autonomy (100% load, full tank)	hours	7,3
Radiator high	mm	760
Radiator width	mm	650
Radiator distance from the floor	mm	500
Air outlet surface	m ²	0,5
Air inlet surface	m ²	0,63
Noise level (LWA)	dB	117**



CANOPY VERSION

Dimensions (LxWxH)	mm	2300x953x1515
Weight (without fuel)	kg	1480
Fuel tank capacity	liters	140
Autonomy (100% load, full tank)	hours	7,3
Noise level (LWA)	dB	94**



Pictures for reference only

OPERATION DATA

Engine oil type	15W40	Rimula R3X
Total oil capacity	l	12,8
Oil consumption (per 1 kW)	%	0,01
Oil change intervals	hours/year	100 (first time) 500 / 1
Coolant type (glycol)	- 38°C Antifreeze	Glicoshell
Coolant quantity	l	18,5
Coolant change intervals	hours/years	1000 / 2
Starting battery capacity	Ah	100
Fuel type	Diesel	EN 590
Fuel consumption 100% load	l/h	19,3
Fuel consumption 80% load	l/h	14,4
Fuel consumption 50% load	l/h	9,8
Fuel filters change interval	hours	500
Oil filters change interval	hours	500
Foundation concrete slab (for reference only) L/W	mm	2500x1200

* - please contact technical department
** - for installation, noise protection required
*** - according to 2005/88/EC



STANDARD EQUIPMENT:

- diesel engine
- alternator
- starting batteries
- on engine wiring
- fuel tank with on engine fuel installation
- elastic engine and alternator mountings
- exhaust compensators
- silencer
- on engine liquids (engine oil and cooling liquid, without fuel)
- generating set terminal box
- main circuit bracer
- generating set control panel with engine and alternator parameters indication
- emergency stop
- acoustic warning signal

Version:

- R** - open version, manual start
- standard equipment,
- AG** - open version, automatic start
- standard equipment,
- + battery charger,
- + with external start command
- ASG** - open version, automatic start, AMF+ATS
- standard equipment,
- + battery charger,
- + AMF+ATS Automatic Transfer Switches with Automatic Mains Failure
- RC** - soundproof, manual start,
- standard equipment,
- + soundproof canopy
- ACG** - soundproof, automatic start
- standard equipment,
- + soundproof canopy,
- + battery charger,
- + with external start command,
- ASCG** - soundproof, automatic start, AMF+ATS
- standard equipment,
- + soundproof canopy,
- + battery charger,
- + AMF+ATS Automatic Transfer Switches with Automatic Mains Failure,

ACCESSORY:

- external fuel tank,
- synchronization with other generator set,
- ventilation,
- exhaust piping system,
- differential protection,
- other voltage application,
- individual ATS,
- spark arrester,
- remote control,
- maintenance contract,
- others*