



### **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:**

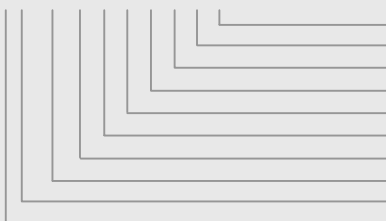
All parameters are given for reference conditions: ambient air temperature up to 40 °C and site altitude above sea level 1000m.

### **STANDARD WARRANTY**

Prime Power – 12 months

### **GENERATING SET DESCRIPTION**

**FI 160 N A S C G P L**



GENERAL DATA		
Standby Power L.T.P. (cos φ = 0,8)	kVA / kW	176 / 141
Prime Power P.R.P. (cos φ = 0,8)	kVA / kW	160 / 128
Nominal current	Amps	230
Nominal voltage	V	230/400
Frequency	Hz	50
ENGINE	IVECO	NEF67 TM3
Emission standard	STAGE	2
Engine speed	rpm	1500
Class 8528 / engine governor	G2	MECHANICAL
Engine speed regulation	%	± 2
Cylinder configuration	6	IN LINE
Fuel	-	Diesel EN 590
Cooling type	LIQUIDE / AIR	ANTIFREEZE + AIR
Displacement	l	6,7
Engine power PRP ISO 3046	kW	138
Battery charging alternator voltage	V	12
ALTERNATOR	MECC ALTE ECO 38-1SN/4	SINCRO SK250MS
Type	Brushless, self exciting, synchronous	Brushless, self exciting, synchronous
Pole / Connecting type	4 / star Y	4 / star Y
Insulation class	H	H
Protection grade	IP 21	IP 21
Voltage regulation type	ELECTRONIC AVR UVR6	ELECTRONIC AVR BL3
Voltage regulation	±1%	±1%
Short circuit current capacity	300% In	300% In
Waveform distortions THD	< 3,1 %	< 2 %
Reactances Xd"	5,1 %	-* %

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 160

## INSTALLATION GUIDELINE

Power output connection	bar	mm	150
Power output cables	elastic cable	mm <sup>2</sup>	5x120(≤30m)
ATS control connection	elastic cable	mm <sup>2</sup>	7x1,5 (≤30m)
Preheating, battery charger ect	elastic cable	mm <sup>2</sup>	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	101,6
Exhaust pipe diameter (max. 15m, 4 elbows)		mm	114,3

## OPEN VERSION

Dimensions(LxWxH)	mm	2905x1100x 1600
Weight (without fuel)	kg	1660
Fuel tank capacity	liters	315
Autonomy (100% load, full tank)	hours	8,7
Radiator high	mm	895
Radiator width	mm	695
Radiator distance from the floor	mm	500
Air outlet surface	m <sup>2</sup>	0,62
Air inlet surface	m <sup>2</sup>	0,78
Noise level (LWA)	dB	117**



## CANOPY VERSION

Dimensions (LxWxH)	mm	3300x1100x1900
Weight (without fuel)	kg	2060
Fuel tank capacity	liters	315
Autonomy (100% load, full tank)	hours	8,7
Noise level (LWA)	dB	96**



Pictures for reference only

## OPERATION DATA

Engine oil type	15W40	Rimula R3X
Total oil capacity	l	17,2
Oil consumption (per 1 kW)	l/h	-*
Oil change intervals	hours/year	100 (first time) 500 / 1
Coolant type (glycol)	- 38°C Antifreeze	Glicoshell
Coolant quantity	l	40,5
Coolant change intervals	hours/years	1000 / 2
Starting battery capacity	Ah	100
Fuel type	Diesel	EN 590
Fuel consumption 100% load	l/h	36,0
Fuel consumption 80% load	l/h	29,0
Fuel consumption 50% load	l/h	18,0
Fuel filters change interval	hours	500
Oil filters change interval	hours	500
Foundation concrete slab (for reference only) L/W	mm	3500x1300

\* - 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 arresstor,
- remote control,
- maintenance contract,
- others\*