GENERATING SET
GE SX-12000 KTDT

Le immagini riportate sono indicative

FEATURES

- Bunded base suitable to contain any liquids leakage from engine avoiding environmental pollution
- The rounded edges of the canopy designed for rainwater drainage away
- Large doors for better and easy maintenance (air, oil, fuel filters replacement)
- Central lifting eye
- Low oil pressure automatic engine shut down and hight water temperature
- Circuit breaker and ELCB-GFI (Ground Fault Interruptor)
- Supersilenced
- Control panel with automatic digital control unit (AMF) **on request**
- Meets EC directives for noise and safety

POWER RATINGS	
* Stand-By three-phase power (LTP)	12 kVA (9.6 kW) / 400V / 17.3A
* PRP three-phase power	10.5 kVA (8.7 kW) /400V/15.1A
* PRP single-phase power	6 kVA / 230V / 26A
* COP single-phase power	/
Frequency	50 Hz
Cos φ	0.8

* Output powers according to ISO 8528-1

DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level

LTP power: stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: continue power with variable loads. Maximum power for use with variable loads for a yearly illimited nubers of hours.

COP power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

ENGINE 3000 RPM

4 STROKE, NATURAL ASPIRATED	
Model	KUBOTA D722
Cylinders / Displacement	11.9 kW (16 hp)
Bore / Stroke	10.3 kW (14 hp)
Compression ratio	/
* Stand-By net power	3 / 719 cm³
* PRP net power	67 / 68 (mm)
* COP net power	/
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	3.9 lt./h
100 % to PRP	3.4 lt./h
75 % to PRP	2.6 lt./h
50 % to PRP	1.7 lt./h
COOLING SYSTEM	Water
Total system cap. - only engine	4.1 lt - /
Fan air flow	/
LUBRICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	3.8 lt.
Oil consumption at full load	/

EXHAUST SYSTEM	
Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	/
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	12 Vdc
Starter motor power	1 kW
Battery charging alternator cap.	14 A
Cold start	/
With cold start aid	- 15 °C
AIR FILTER	Dry
Combustion air flow	/
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED		
	WITHOUT AVR	WITH AVR
Continuos power	11.5 kVA	
Stand-by power	12.5 kVA	
Three phase voltage	400 Vac	
Frequency	50 Hz	
Cos φ	0.8	
Model A.V.R.	/	HVR 10
Voltage regulation acc.	± 4 %	± 1 %
Sustained short circuit current	≤ 3 In	
Transient dip (100% load)	< 15 %	
Recovery time	/	
Efficiency at 100% load	83 % (400V - Cos φ 0.8)	83.5 % (400V - Cos φ 0.8)
Insulation	Classe H	
Connection - Terminals	Serie - N°6	
Electromagnetic compatibility (R.F.I. suppr.)	EN55011	
Waveform distorsion - THD	<4%	
Thelephone interference - THF	/	

REACTANCES (11.5 KVA - 400V)		
Direct axis synchronuos - Xd	280 %	239 %
Direct axis transient - X'd	21 %	19 %
Subdirect axis transient - X"d	5.8 %	4.6 %
Quadrature axis synchronuos - Xq	155 %	130 %
Quadr. axis subtransient - X"q	/	
Negative sequence - X2	/	
Zero sequence - X0	/	
TIME CONSTANTS		
Transient - T'd	0.04 sec	0.046 sec
Subtransient - T"d	0.006sec	
Open circuit - T'do	0.53 sec	0.58 sec
Armature - Ta	/	
Short-circuit ratio Kcc	0.62	0.72
IP protection degree	IP 23	
Cooling air flow	0.082 m^3/sec.	
Coupling I Bearing	Diretto SAE 5 -7 ½ - N°1	

GENERAL SPECIFICATIONS

Fuel tank capacity	38 lt.
Running time (75% to PRP)	14.5 h
Starter battery	12 Vdc -38Ah
IP protection degree	IP 23

* Measured acoustic power LwA (pressure LpA)	93 dB(A) (68 dB(A) @ 7m)
* Guaranteed acoustic power LwA (pressure LpA)	93 dB(A) (68 dB(A) @ 7m)
Performance class (ISO 8528)	G2

* Acoustic power according to European Directive 2000/14/CE

MANUAL CONTROL PANEL

- Start and stop engine key
- Low oil pressure warning light with shutdown
- High cooling temperature warning light with shutdown
- Battery charge warning light fault
- Low fuel warning light
- Glow plug light
- Digital multifunction meter : Voltmeter - Frequencymeter - Total Hoursmeter - Partial Hoursmeter (resettable) - Battery voltage
- Fuel level gauge
- Emergency stop buttom
- Circuit breaker
- ELCB-GFI (Ground Fault Interruptor)
- Output sockets: 1x 400V 16A 3P+N+T
  1x 230V 16A 2P+T
  1x 230V 16A Schuko
- Earth terminal (PE)

Automatic Control Panel

- Controller InteliNano Plus
- Controller supply switch
- Battery charge warning light fault
- Emergency stop buttom
- TCM 35 remote control plug
- PAC (ATS) plug
- Battery charger
- Circuit breaker - ELCB-GFI (Ground Fault Interruptor)
- Circuit breaker for 230V 16A sockets
- Output sockets : 1x 230V 32A 2P+T
  1x 230V 16A 2P+T
  1x 230V 16A Schuko
- Earth terminal (PE)

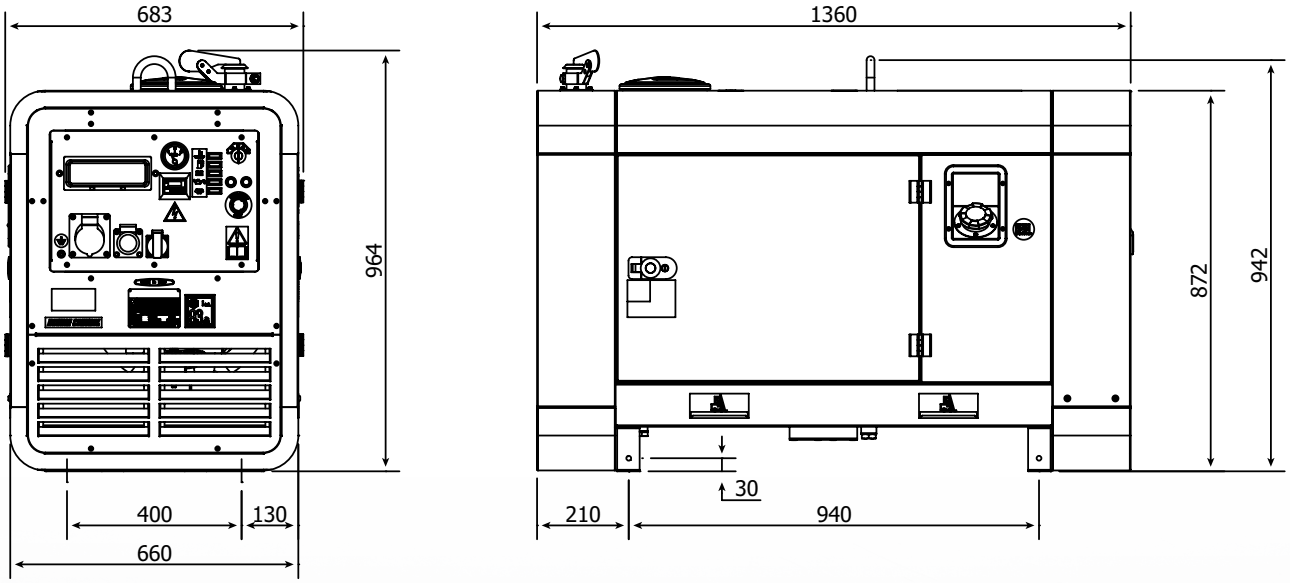
INTELINANO PLUS CONTROLLER CHARACTERISTICS	
Operating mode	• MAN.- AUTO
Display	• Graphic back-light LCD display 128x64 pixels
LEDs	• Engine operation • AUTO operating mode • Alarm
Buttons	• START button • STOP button • AUTO button • N° 2 buttons for controller programming
Generator Measures	• Voltage : L1-L2 • Current : I1 • Powers : kVA • Frequency
Engine Measures	• Water temperature (optional) • Oil pressure (optional) • Fuel level • Rpm meter • Battery voltage • Maintance • Hours meter
Generator Protections	• Short circuit • Over-Udervoltage • Over-Uderfrequency • Phase sequence
Engine Protections	• Overspeed • High water temperature warning • Low oil pressure warning • Low fuel level warning • Under battery voltage • Battery charge alternator failure • Start failure • Stop failure • Emergency stop
AMF functins (Automatic control panel only)	• Measure mains voltage : L1-L2 / L2-L3 / L3-L1 - N-L1 / N-L2 / N-L3 • Measure mains frequency • Three phase detection • Over-Under mains voltage • Over-Under mains frequency • Phase sequence
Features	• Event log and alarms (10 events) • Operator interface with icons, no text • Remote Start and Stop • Pre-heating • Fully programmable from the panel or from PC • Direct connection to engines with ECU via Can bus J1939 • Manual operation (MRS) with remote start • IP65 protection • Operation temperature: -20°C / +70°C
Communication	• Setup USB port • CAN BUS interface (J1939 only)

WEIGHT - DIMENSIONS AND ACCESSORIES

DRY WEIGHT MACHINE:
- 305 Kg

Generating set pictured may include optional accessories.

DIMENSIONS DRAW



OPTIONS ON REQUEST

- *Automatic transfer switch unit PAC 17 (25A)
- *TCM35 Remote control
- Moving trolley CM9
- Site tow CTL 10000
- Road trailer CTV4
- Locking Fuel Cap
- Earthing kit

* Only with Automatic Control Panel

VERSIONS ON REQUEST

- Digital automatic control panel

FACTORY INSTALLATION OPTIONS

- Isometer

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS
2006/42 / EC (Machines Directive)
2014/35 / EU (Low Voltage Directive)
2014/30 / EU (EMC Directive)
2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)
ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)

ISO 9001:2008 - Cert. 0192

WARRANTY
All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.

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