



# **GENERATING SET GE 35 KSC**

The images are for reference



POWER RATINGS	
* Stand-By three-phase power	33 kVA (26.4 kW) / 400V / 47.6 A
* PRP three-phase power	30 kVA (24 kW) / 400V / 43.3 A
* PRP single-phase power	11 kVA / 230V / 47.8 A
* COP three-phase power	/
Frequency	50 Hz
Cos φ	0.8

<sup>\*</sup> Output powers according to ISO 8528-1

### **FEATURES**

- Automatic voltage regulation AVR
- The rounded edges of the canopy designed for rainwater drainage away
- Bunded base suitable to contain any liquids leakage from engine avoiding environmental pollution
- External caps for oil and water drain
- Engine cowling side, can be completely opened, which facilitates all maintenance operations
- Central lifting eye
- Control panel with digital control unit
- The forklifts handling is possible from all sides
- Complies with regulation 2016/1628/EU FOR STATIONARY USE ONLY











water cooled

three-pha

### 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 1500 RPM

4 STROKE, DIRECT INJECTION, NATURAL ASPIRATED	
Model	KOHLER - KDI 2504TM-30
* Stand-By net power	31,1 kW (42,3 hp)
* PRP net power	28.2 kW (38.3 hp)
* COP net power	/
Cylinders / Displacement	4 / 2482 cm <sup>3</sup> (2.482 lt.)
Bore / Stroke	88 / 102 (mm)
Compression ratio	18.5 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	940 kPa
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	8.3 lt./h
100 % to PRP	7.5 lt./h
75 % to PRP	5.7 lt./h
50 % to PRP	4 lt./h
COOLING SYSTEM	
Total system cap only engine	9.1 lt
Fan air flow	70.8 m <sup>3</sup> /min
LUBRICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	11.2 lt.
Oil consumption at full load	< 0.017 l/h

<sup>\*</sup> Output powers according to ISO 3046-1

EXHAUST SYSTEM	
Maximum exhaust gas flow	6.2 lt./mim.
Max. exhaust gas temp.	455 °C
Maximum back pressure	8 kPa (0.08 bar)
External diameter exhaust pipe	1
ELECTRICAL SYSTEM	12 Vdc
Starter motor power	2.2 kW
Battery charging alternator cap.	55 A
Cold start	-10°C
With cold start aid	- 15 °C
AIR FILTER	Dry
Combustion air flow	2 m³/min
HEAT REJECTED AT FULL LOAD	
To exhaust system	1
To water and oil	/
Radiated to room	
To charge cooler	1



# **A**LTERNATOR

SYNCHRONOUS, THREE-PHASE	, SELF-EXCITED, SELF-REGULATED, BRUSHLESS
Continuos power	30 kVA
Stand-by power	33 kVA
Three phase voltage	380-415 Vac
Frequency	50 Hz
Cos φ	0.8
Model A.V.R.	HVR-11
Voltage regulation acc.	± 1.0 %
Sustained short circuit current	2.5 ln
Transient dip (100% load)	10 %
Recovery time	≤ 3 sec.
Efficiency at 100% load	87.1 % (400V - Cos φ 0.8)
Insulation	Class H
Connection - Terminals	Star - N°6
Electromagnetic compatibility (R.F.I. suppr.)	EN 55011
Waveform distorsion - THD	< 3 %
Thelephone interference - THF	/

REACTANCES (30 kVA - 400V)	
Direct axis synchronuos - Xd	243 %
Direct axis transient - X'd	19 %
Subdirect axis transient - X"d	8 %
Quadrature axis synchronuos - Xq	135 %
Quadr. axis subtransient - X"q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	0.01 sec
Subtransient - T"d	0.005 sec
Open circuit - T'do	0.125 sec
Armature - Ta	/
Short-circuit ratio Kcc	0.58
IP protection degree	IP 23
Cooling air flow	0.115 m³/sec.
Coupling   Bearing	Direct SAE 3 -11.5 ½ - N°1

# GENERAL SPECIFICATIONS

Fuel tank capacity	55 lt.
Running time (75% to PRP)	9.6 h
Starter battery	12 Vdc -80Ah / 670A CCA(EN)
IP protection degree	IP 23

* Measured acoustic power LwA (pressure LpA)	92.7 dB(A) (67.7 dB(A) @ 7m)
* Guaranteed acoustic power LwA (pressure LpA)	94 dB(A) (69 dB(A) @ 7m)
Performance class (ISO 8528)	G2

<sup>\*</sup> Acoustic power according to European Directive 2000/14/CE





# **CONTROL PANEL**

### AUTOMATIC CONTROL PANEL

- Controller InteliNano Plus
- Controller supply switch
- Battery charge warning light fault
- Emergency stop buttom
- TCM 35 remote control plug
- Connection terminal-board PAC (ATS) (Automatic control panel only)
- Battery charger (Automatic control panel only)
- Circuit breaker ELCB-GFI (Ground Fault Interruptor)
- Circuit breaker
- Power terminal-board
- Earth terminal (PE)



INTELINANO PLUS CONTROLLER CHARACTERISTICS	
Operating mode	MAN AUTO
Display	Graphic back-light LCD display 128x64 pixels
LEDs	<ul><li>Engine operation</li><li>AUTO operating mode</li><li>Alarm</li></ul>
Buttons	<ul> <li>START button</li> <li>STOP button</li> <li>AUTO button</li> <li>N° 2 buttons for controller programming</li> </ul>
Generator Measures	Voltage: L1-L2/L2-L3/L3-L1/N-L1/N-L2/N-L3 Voltage: L1-L2 (Automatic control panel only) 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 (Automatic control panel only)

Engine Protections	Overspeed High water temperature alarm High water temperature warning Low oil pressure warning Low fuel level warning Under battery voltage Battery charge alternator failure Stop failure Emergency stop
AMF functions (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)

### Manual Control Panel with sockets

- Supply switch
- Siren
- Battery charge warning light fault
- Emergency stop buttom
- TCM 35 remote control plug
- Circuit breaker
- Earth leakage circuit breaker (GFI)
- Output sockets: 1x 400V 63A 3P+N+T CEE

1x 400V 32A 3P+N+T CEE 1x 400V 16A 3P+N+T CEE 1x 230V 16A 2P+T CEE 1x 230V 16A 2P+T SCHUKO

- Circuit breaker for 400V 32A socket
- Circuit breaker for 400V 16A socket
- Circuit breaker for 230V 16A sockets
- Earth terminal (PE)







# **WEIGHT - DIMENSIONS AND ACCESSORIES**



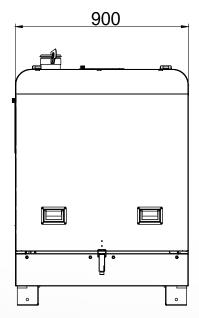
DRY WEIGHT MACHINE:

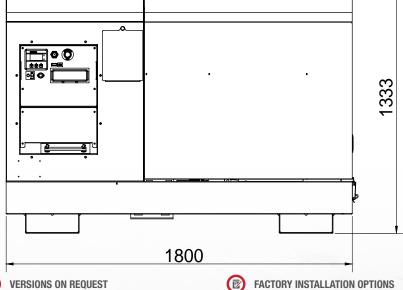
• 847 Kg

Generating set pictured may include optional accessories.



DIMENSIONS DRAW





### OPTIONS ON REQUEST

- Load transfer switch (ATS) PAC 42 (60A) (Only with Automatic control panel)
- Load transfer switch (ATS) PAC-I 42 (60A) (Only with Manual control panels)
- Remote control TCM35
- Site tow CTL30
- Road trailer CTV1
- · Earthing kit

- **VERSIONS ON REQUEST**
- Manual digital control panel with sockets CEE and **SCHUKO**
- · Digital control panel (without sockets)

- · Gauges water temperature and oil pressure
- Earth leakage relay
- · Radio control
- Main battery switch
- Engine water heater
- 100 litre internal tank

### GENERAL INFORMATION

### **COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS**

2006/42 / EC (Machinery Directive)

2014/35 / UE (Low Voltage Directive)

2014/30 / UE (Electromagnetic Compatibility Directive)

ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2015 - Cert. 0192 WARRANTY

All devices are covered by the manufacturer's warranty.

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