



**General specifications of the generating set**

PRP power	kVA/kWe	1000/800
STP power	kVA/kWe	1100/880
Engine revolutions	r.p.m	1500
Voltage type		Three-phase
Standard voltage	V	400/230
Optional voltages	V	Please, contact us
Frequency	Hz	50
Power factor	cos φ	0,8
Fuel		Diesel
Tank (open version)	l	1000 independent
Tank (soundproof version)	l	960

**Denomination**

**GEN 2500 H C**

type of generating set  
stand-by power (kVA)  
engine's manufacturer  
soundproof version

- ⊗ Engine-alternator assembly with flexible disk, mono-block direct coupling.
- ⊗ Folded steel base frame, electro-welded and painted with a primer coat and a two-component finish coat.
- ⊗ Rubber anti-vibration system between the mono-block and the base frame.
- ⊗ Guards for moving parts
- ⊗ Guards for hot parts.
- ⊗ Exhaust gas silencer -25dB with flexible and connecting clamps to the engine in open version and -30dB integrated within the canopy in soundproof version.
- ⊗ Engine pre-heater in automatic or parallel operation (range 5-20kVA, optional).
- ⊗ Control panel.
- ⊗ Automatic battery charger in automatic or parallel operation generating sets.
- ⊗ Four-pole circuit breaker.
- ⊗ Emergency stop push button.
- ⊗ Generator's electrical grounding installation (ground spike not included).

**EC marking directives and applicable standards**

- ⊗ 2006/42/EC on Machine Safety.
- ⊗ 2006/95/EC Low Voltage Directive.
- ⊗ 2004/108/EC on Electromagnetic Compatibility.
- ⊗ 2005/88/EC amending Directive 2000/14/EC on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.
- ⊗ EN 12100:2012, EN 13857:2008, EN 60204-1:2007.

**Reference environmental conditions in accordance with Standard ISO 8528-1:2005**

1000mbar, 25°C, 30% relative humidity.

**Prime Power (PRP)**

In accordance with ISO 8528-1:2005, this is the maximum power available for a variable power sequence for an unlimited number of hours while in compliance with the maintenance schedules prescribed by the manufacturer and under such conditions as defined by the same. Permissible average power for a period of 24 hours shall not exceed 70% of PRP. 10% overload is allowed for 1 hour out of every 12h (STP).

**Emergency Standby Power (ESP)**

In accordance with ISO 8528-1:2005, this is the maximum power available for a variable power sequence in the event of a mains failure or under test conditions which shall not exceed 200h/year and in compliance with the maintenance schedules prescribed by the manufacturer and under the environmental conditions defined by the same. Permissible average power for a period of 24 hours shall not exceed 70% of ESP. No overload is allowed.

GENESAL reserves the right to modify any feature without notice.

**Engine specifications**

Manufacturer		Cummins
Model		KTA38-G5
Displacement	l	37,8
Engine revolutions	r.p.m.	1500
Operating cycle	Strokes	4
Cylinders	No.	12
Bore	mm	159
Stroke	mm	159
Compression ratio		13,9:1
Cylinder arrangement		V
PRP net power	kWm	880
STP net power	kWm	970
Induction system		Turbocharged
Intake air flow	m <sup>3</sup> /h	4367
Exhaust gas flow	m <sup>3</sup> /h	11901
Exhaust gas temperature	°C	513
Maximum allowable back pressure	kPa	10
Type of cooling		Air/Water
Type of cooling liquid		Ethylene glycol 50%
Total coolant capacity	l	210
Cooling air flow	m <sup>3</sup> /h	68040
Total oil capacity	l	135
Starting system	V	24
Battery	Ah	2x225
Starter motor power	kW	N.A.
Fuel consumption		
100% of load	l/h	209
75% of load	l/h	161
50% of load	l/h	113
Speed regulator		Electronic

**Optional components**

- ⊗ Automatic fuel transfer system.
- ⊗ Air intake and outlet sound attenuators of -30dB.
- ⊗ Additional fuel tanks.
- ⊗ Greater attenuation exhaust gas silencer.
- ⊗ Electronic speed governor for engines which include a mechanical control as a standard.
- ⊗ Low coolant level sensor for engines that do not include it as a standard.
- ⊗ Low oil level sensor in engines that do not include it as a standard.
- ⊗ Hoppers, bellows and cooling air ducts.
- ⊗ Exhaust gas pipes.
- ⊗ Others (please contact us).



















**Recommended dimensions for the indoor installation of the soundproof generating set**

Minimum room dimensions			Dimensions for ventilation and exhaust gases		
Length	mm	6955	Outlet louvers	m <sup>2</sup>	3,45
Width	mm	4100	Inlet louvers	m <sup>2</sup>	3,86
Height	mm		Exhaust gas outlet	mm	

