



#### DESCRIPTIVE

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with mechanical fan
- Protective grille for fan and rotating parts
- 9 dB(A) silencer supplied separately
- Charger DC starting battery with electrolyte
- 24 V charge alternator and starter
- Delivered with oil and coolant -30°C
- Manual for use and installation

#### POWER DEFINITION

**PRP** : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

**ESP** : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1.

Overload is not allowed.

#### TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25°C Air Inlet Temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30 % relative humidity. For particular conditions in your installation, refer to the derating table.

For the generating sets used indoor, where the acoustic pressure levels depends on the installation conditions, it is not possible to specify the ambient noise level in the exploitation and maintenance instructions . You will also find in our exploitation and maintenance instructions a warning concerning the air noise dangers and the need to implement appropriated preventive measures.

## D330

Engine type	P126TI-II
Alternator type	LSA 46.2 VL12

#### GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	330
Max power ESP (kWe)	264
Max power PRP (kVA)	300
Max power PRP (kWe)	240
Intensity (A)	476
Standard Control Panel	TELYS
Optional control panel	KERYS

#### DIMENSIONS AND NOISE LEVELS

##### DIMENSIONS COMPACT VERSION

Length (mm)	3160
Width (mm)	1340
Height (mm)	1592
Dry weight (kg)	2570
Tank capacity (L)	470

##### DIMENSIONS SOUNDPROOFED VERSION

Canopy	M228
Length (mm).	4475
Width (mm).	1410
Height (mm).	2430
Dry weight (kg).	3670
Tank capacity (L).	470
Acoustic pressure level @1m in dB(A) (associated uncertainty)	81 (0.7)
Sound power level guaranteed (Lwa) in dB(A)	101

#### POWERS

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
415/240	264	330	240	300	459
400/230	264	330	240	300	476
380/220	264	330	240	300	501

# D330

## ENGINE SPECIFICATIONS

### GENERAL ENGINE DATAS

Engine model	DOOSAN P126TI-II , 4-temps, Turbo , Air/Air DC 6 X
Cylinder arrangement	L
Displacement (C.I.)	11.05
Bore (mm) x Stroke (mm)	123 x 155
Compression ratio	17 : 1
Speed (RPM)	1500
Pistons speed (m/s)	7.75
Maximum stand-by power at rated RPM (kW)	294
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	19.11
Governor type	Electronic

### COOLING SYSTEM

Radiator & Engine capacity (L)	50.5
Max water temperature (°C)	103
Outlet water temperature (°C)	N/A
Fan power (kW)	10
Fan air flow w/o restriction (m3/s)	5
Available restriction on air flow (mm EC)	76
Type of coolant	Gencool
Thermostat (°C)	71 - 85

### EMISSIONS

Emission PM (g/kW.h)	0.14
Emission CO (g/kW.h)	0.11
Emission HCNOx (g/kWh)	N/A
Emission HC (g/kW.h)	0.33

### EXHAUST

Exhaust gas temperature (°C)	590
Exhaust gas flow (L/s)	790
Max. exhaust back pressure (mm EC)	600

### FUEL

Consumption @ 110% load (L/h)	77.6
Consumption @ 100% load (L/h)	63.1
Consumption @ 75% load (L/h)	47
Consumption @ 50% load (L/h)	31.3
Maximum fuel pump flow (L/h)	270

### OIL

Oil capacity (L)	25
Min. oil pressure (bar)	0.5
Max. oil pressure (bar)	10
Oil consumption 100% load (L/h)	0.06
Carter oil capacity (L)	23

### HEAT BALANCE

Heat rejection to exhaust (kW)	253.8
Radiated heat to ambient (kW)	35.2
Heat rejection to coolant (kW)	150.6

### AIR INTAKE

Max. intake restriction (mm EC)	635
Intake air flow (L/s)	335

**GENERAL DATAS**

Alternator brand	LEROY SOMER
Alternator type	LSA 46.2 VL12
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Excitation system	SHUNT
Insulation class / T° class, continuous 40°C	H / H / 125°K
Regulation	N/A
Harmonic factor, no load TGH/THC	< 2.5%
Wave form : NEMA=TIF-(TGH/THC)	< 50
Wave form : CEI=FHT-(TGH/THC)	< 2%
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (%)	+/- 0.5%
Recovery time (Delta U = 20% transient) (ms)	500 ms

**OTHER DATAS**

Continuous Nominal Rating 40°C (kVA)	318
Standby Rating 27°C (kVA)	350
Efficiencies 4/4 load (%)	93.7
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.5
Direct axis synchro reactance unsaturated (Xd) (%)	276
Quadra axis synchro reactance unsaturated (Xq) (%)	166
Open circuit time constant (T'do) (ms)	2253
Direct axis transient reactance saturated (X'd) (%)	12.1
Short circuit transient time constant (T'd) (ms)	100
Direct axis subtransient reactance saturated (X''d) (%)	7.3
Subtransient time constant (T''d) (ms)	10
Quadra axis subtransient reactance saturated (X''q) (%)	9
Zero sequence reactance unsaturated (Xo) (%)	0.5
Negative sequence reactance saturated (X2) (%)	8.2
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	3.4
Full load excitation voltage (uc) (V)	33
Recovery time (Delta U = 20% transient) (ms)	500 ms
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	694
Transient dip (4/4 load) - PF : 0,8 AR (%)	12.9
No load losses (W)	4800
Heat rejection (W)	16880

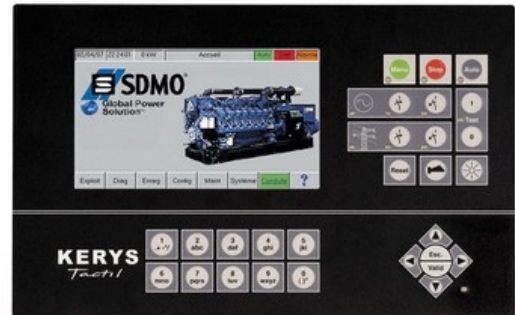
**CONTAINMENT**

Canopy	M228 DW
Length (mm).	4527
Width (mm).	1410
Height (mm).	2700
Dry weight (kg).	4190
Tank capacity (L).	1368
Acoustic pressure level @1m in dB(A) (associated uncertainty)	81 (0.7)
Sound power level guaranteed (Lwa) in dB(A)	101

**DIMENSIONS AND NOISE LEVELS**

TELYS, ergonomic and user-friendly

KERYS, coupling and adaptability



The highly versatile TELYS control unit is complex yet accessible, thanks to the particular attention paid to optimising its ergonomics and ease of use. With its large display screen, buttons and scroll wheel, it places the accent on simplicity and communication.

The TELYS offers the following functions:

**Electrical measurements:** voltmeter, frequency meter, ammeter.

**Engine parameters:** working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

**Alarms and faults:** oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop, fuel level.

**Ergonomics:** wheel for navigating around the various menus.

**Communication:** remote control and operation software, USB connections, PC connection.

For more information on the product and its options, please refer to the sales documentation.

The KERYS control unit has been designed to fulfil the specific requirements of professionals in terms of operating and monitoring generating sets. It therefore offers a wide range of functions.

This control unit is fitted as standard to all generating sets designed to be used for coupling and is offered as an option across the rest of our range.

The KERYS can be built into the central console, fitted directly on the generating set, or in a separate cabinet, to fulfil all the requirements for low and high output power plants.

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**Electrical measurements:** voltmeter, frequency meter, ammeter.

**Engine parameters:** working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

**Alarms and faults:** oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop.

**Additional functions:** coupling, website, diagnostic aid, assistance and maintenance, graphs and archiving, load impact management, 8 available installation configurations, certification in line with international standards.

For more information, please refer to the sales documentation.

Additional specifications :Website, Troubleshooting, Assistance and Maintenance, Plotting and logging, Load impact, 8 configurations available, Compliance with international standards...