ସହ TRANSDIESEL:







DESCRIPTIVE

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for core temperature of 48/50°C max with mechanical fan
- Protective grille for fan and rotating parts (CE option)
- 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 Intlet 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.

ASSOCIATED UNCERTAINTY

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.

KV350C2

Engine ref. TAD1341GE
Alternator ref. KH02100T
Performance class G3

GENERAL CHARACTERISTICS

Frequency (Hz) 50 Hz

Voltage (V) 400/230

Standard Control Panel TELYS

Optional control panel APM802

Optional Control Panel M80

Optional control panel NA

POWER							
	Voltage	ESP		PI	RP	Standby Amps	
	voltage	kWe	kVA	kWe	kVA	Otanuby Amps	
	415/240	260	325	236	295	452	
	400/230	280	350	254	318	505	
	380/220	280	350	254	318	532	
	200/115	264	330	240	300	953	
	240 TRI	264	330	240	300	794	
	230 TRI	280	350	254	318	879	

254

240

318

300

919

866

DIMENSIONS COMPACT VERSION	N .
Length (mm)	3160
Width (mm)	1340
Height (mm)	1805
Dry weight (kg)	3103
Tank capacity (L)	470

DIMENSIONS SOUNDPROOFED VERSION Type soundproofing M228 Length (mm) 4475 Width (mm) 1410 Height (mm) 2430 Dry weight (kg) 4035 Tank capacity (L) 470 Acoustic pressure level @1m in dB(A) 77 Sound power level guaranteed (Lwa) 97 Acoustic pressure level @7m in dB(A) 67

220 TRI

220/127

280

264

350

330



KV350C2

ENGINE CHARACTERISTICS

GENERAL ENGINE DATA	
Engine brand	VOLVO
Engine ref.	TAD1341GE
Air inlet system	Turbo
Cylinders configuration	L
Number of cylinders	6
Displacement (L)	12.78
Charge Air coolant	Air/Air DC
Bore (mm) x Stroke (mm)	131 x 158
Compression ratio	18.1 : 1
Speed (RPM)	1500
Pistons speed (m/s)	7.90
Maximum stand-by power at rated RPM (kW)	308
Frequency regulation, steady state (%)	+/- 0.5%
BMEP (bar)	17.50
Governor type	Electronic

COOLING SYSTEM	
Radiator & Engine capacity (L)	44
Fan power (kW)	10
Fan air flow w/o restriction (m3/s)	7.50
Available restriction on air flow (mm H2O)	20
Type of coolant	Glycol-Ethylene

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Emission PM (mg/Nm3) 5% O2 Emission CO (mg/Nm3) 5% O2 Emission NOx (mg/Nm3) 5% O2 Emission HC (mg/Nm3) 5% O2

EXHAUST	
Exhaust gas temperature @ ESP 50Hz (°C)	414
Exhaust gas flow @ ESP 50 Hz (L/s)	866
Max. exhaust back pressure (mm H2O)	1000
FUEL	
Consumption @ 110% load (L/h)	69.20
Consumption @ 100% load (L/h)	63.10
Consumption @ 75% load (L/h)	48.30
Consumption @ 50% load (L/h)	33.40
Maximum fuel pump flow (L/h)	120
OIL	
Oil capacity (L)	36
Min. oil pressure (bar)	
Max. oil pressure (bar)	
Oil consumption 100% ESP (L/h)	0
Oil sump capacity (L)	30
HEAT BALANCE	
Heat rejection to exhaust (kW)	203
Radiated heat to ambiant (kW)	10
Haet rejection to coolant HT (kW)	133
AIR INTAKE	
Max. intake restriction (mm H2O)	510
Intake air flow (L/s)	401



KV350C2

ALTERNATOR CHARACTERISTICS

GENERAL DATA	
Alternator ref.	KH02100T
Number of Phase	Three phase
Power factor (Cos Phi)	0.80
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 3 In for 10 s	No
Insulation class	Н
T° class (H/125°), continuous 40°C	H / 125°K
T° class (H/163°C), standby 27°C	H / 163°K
AVR Regulation	Yes
Total Harmonic Distortion in no-load DHT (%)	<2.5
Total Harmonic Distortion, on linear load DHT (%)	<2.5
Wave form : NEMA=TIF	<50
Wave form : CEI=FHT	<2
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (+/- %)	0.50
Recovery time (Delta U = 20% transcient) (ms)	500
Indication of protection	IP 23
Technology	Without collar or brush

OTHER DATA	
Continuous Nominal Rating 40°C (kVA)	325
Standby Rating 27°C (kVA)	358
Efficiencies 100% of load (%)	94
Air flow (m3/s)	0.48
Short circuit ratio (Kcc)	0.4350
Direct axis synchro reactance unsaturated (Xd) (%)	316
Quadra axis synchro reactance unsaturated (Xq) (%)	161
Open circuit time constant (T'do) (ms)	2686
Direct axis transcient reactance saturated (X'd) (%)	11.70
Short circuit transcient time constant (T'd) (ms)	100
Direct axis subtranscient reactance saturated (X"d) (%)	9.40
Subtranscient time constant (T"d) (ms)	10
Quadra axis subtranscient reactance saturated (X"q) (%)	12.60
Subtranscient time constant (T"q) (ms)	10
Zero sequence reactance unsaturated (Xo) (%)	0.48
Negative sequence reactance saturated (X2) (%)	11.01
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	0.78
Full load excitation current (ic) (A)	2.64
Full load excitation voltage (uc) (V)	39.60
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	790.01
Transcient dip (4/4 load) - PF: 0,8 AR (%)	13
No load losses (W)	4935.76
Heat rejection (W)	16304.95
Unbalanced load acceptance ratio (%)	100

DIMENSIONS

Dimensions super soundproofed version		
Type soundproofing	M228	
Length (mm)	4475	
Width (mm)	1410	
Height (mm)	2430	
Dry weight (kg)	4035	
Tank capacity (L)	470	
Acoustic pressure level @1m in dB(A)	77	
Sound power level guaranteed (Lwa)	97	
Acoustic pressure level @7m in dB(A)	67	

Acoustic pressure level (@/Tit iii db(A)	01
Dimensions DW compact version	
Type soundproofing	
Length (mm)	4527
Width (mm)	1400
Height (mm)	2068
Dry weight (kg)	3647
Tank capacity (L)	1368
Acoustic pressure level @1m in dB(A)	
Sound power level guaranteed (Lwa)	
Acoustic pressure level @7m in dB(A)	

Dimensions soundproofed version	
Type soundproofing	M228
Length (mm)	4475
Width (mm)	1410
Height (mm)	2430
Dry weight (kg)	4035
Tank capacity (L)	470
Acoustic pressure level @1m in dB(A)	81
Sound power level guaranteed (Lwa)	
Acoustic pressure level @7m in dB(A)	71

Dimensions DW super soundproofed version		
Type soundproofing	M228 DW	
Length (mm)	4527	
Width (mm)	1410	
Height (mm)	2700	
%PdnetE_5%	4588	
Tank capacity (L)	1368	
Acoustic pressure level @1m in dB(A)	76	
Sound power level guaranteed (Lwa)	97	
Acoustic pressure level @7m in dB(A)	67	



KV350C2

CONTROL PANEL

TELYS, ergonomic and user-friendly



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.

APM802 dedicated to power plant management



The new APM802 command/control system is specifically designed for operating and monitoring power plants for markets including hospitals, data centres, banks, the oil and gas sector, industries, IPP, rental and mining.

This unit is available as standard on all generating sets from 275 Kva designed for coupling. It is optional on the rest of our range.

The Human Machine Interface, designed in collaboration with a company specialising in interface design, facilitates operations with a large 100% touch screen. The preconfigured system for power plant applications features a brand new customisation function which complies with the international standard IEC 61131-3. New communication functions (PLC and regulation), improve the high level of equipment availability in the installation.

Advantages:

Dedicated to power plant management. Specially researched ergonomics. High level of equipment availability. Modularity and long service life guaranteed. Making it easy to extend the installation

For more information, please refer to the sales documentation.