



KOHLER - SDMO KD-1500

Engine ref.	KD36V16-5CES
Alternator ref.	KH05520T
Canopy	M428SI
Container	ISO20 Si
Performance class	G3

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Voltage (V)	400/230
Standard Control Panel	M80-D

COMPACT DIMENSIONS

Length (mm)	4665
Width (mm)	1900
Height (mm)	2380
Dry weight (kg)	8900

SOUNDPROOFED DIMENSIONS

Length (mm)	6800
Width (mm)	2160
Height (mm)	2753
Dry weight (kg)	11100
Tank Capacity (L)	1035

STANDBY RATINGS

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit.

TERMS OF USE

Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results. Data and specifications subject to change without notice.

APM802

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GENERAL ENGINE DATA

Engine model	KOHLER-SDMO
Engine ref.	KD36V16-5CES
Air inlet	Turbo
Cylinders arrangement	V
Number of cylinders	16
Displacement (L)	35,96
Charge Air coolant	Air/Air
Bore (mm) x Stroke (mm)	135 x 157
Compression ratio	15 : 1
Speed (RPM)	1500
Pistons type & material	Steel
Maximum stand-by power at rated RPM (kW)	1333
Air Cleaner Type	Dry
Injection Type	Direct
Governor type	Electronic

COOLING SYSTEM

Radiator & Engine capacity (L)	255
Fan power (kW)	50
Fan air flow w/o restriction (m ³ /s)	20,50
Available restriction on air flow (mm Water Column)	25
Type of coolant	Gencool

CONSUMPTION WITH COOLING SYSTEM (PRP)

Consumption @ 100% load (L/h)	184
Consumption @ 75% load (L/h)	134,60
Consumption @ 50% load (L/h)	92
Consumption @ 25% load (L/h)	50

EXHAUST (PRP)

Exhaust gas temperature (°C)	520
Exhaust gas flow (L/s)	3318
Max. exhaust back pressure (mm EC)	850

OIL

Oil capacity (L)	152
Min. oil pressure (bar)	3,30
Max. oil pressure (bar)	-
Oil consumption 100% ESP (L/h)	0,16
Oil sump capacity (L)	135

HEAT BALANCE

Heat rejection to exhaust (kW)	936
Exhaust gas temperature (°C)	537
Exhaust gas flow (L/s)	3586

AIR INTAKE

Max. intake restriction (mm EC)	500
Intake air flow (L/s)	1243

CONTACT US

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GENERAL DATA	
Alternator ref.	KH05520T
Number of Phase	Three phase
Power factor (Cos Phi)	0,80
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 3 in for 10 s	Yes
Insulation class	H
Unbalanced load acceptance ratio	100%
AVR Regulation	Yes
Total Harmonic Distortion in no-load DHT (%)	2,6
Total Harmonic Distortion, on linear load DHT (%)	1,7
Wave form : NEMA=TIF	<40
Wave form : CEI=FHT	<2
Number of bearing	Single Bearing
Coupling	Direct
Voltage regulation at established rating (+/- %)	0,50
Recovery time (Delta U = 20% transient) (ms)	200
Indication of protection	IP 23
Technology	Brushless

OTHER DATA	
Continuous Nominal Rating 40°C (kVA)	1400
Standby Rating (kVA)	1540
Air flow (m3/s)	20,50
Unbalanced load acceptance ratio (%)	100
Outlet coolant temperature (°C)	100
Max coolant temperature, Shutdown (°C)	105
Maximum Coolant temp without derating (°C)	100
Coolant capacity HT, engine only (L)	124
CAC Heat Rejection (kW)	283
Compressor Discharge Temp at 25°C (°C)	224

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