



KP / Series

Powered by Perkins Engines

KP400/KP450E Diesel Generating Set

50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
400kVA/320kW	437kVA/350kW	3190×1120×2085	3351	6-8h

Standard Configuration	Test Condition and Standards
<ul style="list-style-type: none"> Engine (Perkins) Channel Steel Base 24V Charging Alternator GE Circuit Breaker 24V Starter Battery and Connecting Cable Flexible Pipe, Exhaust Elbow, Industrial Silencer, etc. 	<ul style="list-style-type: none"> Ambient Temperature: ≤27°C Relative Humidity: ≤60%, Altitude: ≤1000m Engine: ISO3046, DIN6271, BS5514 Alternator: VDE0530, BS5000, NEMA MG1-32, IEC34 Generator: ISO8528, GB2820 Generator O&M Manuals
<ul style="list-style-type: none"> Alternator (Mecc Alte) 50°C Radiator Air Filter, Diesel Fuel Filter, Lube Oil Filter Control Panel 	

Generating Set Output Rating						
Voltage (V)	Hz	Phase	PF	Max. Current (A)	Prime (kVA/kW)	Standby (kVA/kW)
415/240	50	3	0.8	609	400/320	437/350
400/230	50	3	0.8	632	400/320	437/350
380/220	50	3	0.8	665	400/320	437/350

Engine Technical Data				TPD1688E5, 7-2010
Model:	2206C-E13TAG3	Max. Power (kW):	398.5	
Induction System:	Turbo-charged	Displacement (L):	12.5	
Cylinder Arrangement:	In Line, Four Cycle	Bore (mm) × Stroke (mm):	130×157	
Number of Cylinders:	6	Compression Ratio:	16.3:1	
Governor Type:	Electronic	Speed (RPM):	1500	

Air System		
Combustion Air Flow (M ³ /min):	Prime: 26.7	Standby: 27.4

Exhaust System			
Combustion Gas Flow (M ³ /min):	72/75.8	Max. Back Pressure (kPa):	10.0
Exhaust Gas Temperature (°C):	≤630	Exhaust Outlet Size (mm):	127

Lubrication System			
Total Oil Capacity (L):	40	Oil Consumption 100% Load (L/h):	0.13/0.14
Normal Oil Temperature (°C):	113	Recommended Oil:	API CF-4 15W/40

Cooling System			
Cooling System Capacity (L):	51.4	Max. Coolant Temperature (°C):	104
Thermostat Operation Range (°C):	87-98	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M ³ /min):	563	Radiator Power (kW):	14.0



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Fuel system

Fuel Injection Pump:	MEUI	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/h):	85	Fuel Consumption 110% Load (L/h):	94

Engine Electrical System

Voltage:	24Vdc
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Alternator Physical Data

Model:	ECO40-1S/4A	Rated Power (kVA):	437
Phase:	3	No. of Bearings:	1
Excitation System:	Self-Excited and Brushless	AVR:	DER1
Connection:	3P 4W, Parallel Star	Insulation Class/Temp Rise:	H/H
Power Factor:	0.8	Wave form NEAM=TIF:	<40
Ingress Protection Rating:	IP23	Wave form IEC=THF:	<2%
Winding Pitch:	2/3	Voltage Regulation:	±1%
Cooling Air (M ³ /s):	0.9	Efficiency:	94.2%

Option

Engine

- Jacket Water Heater
- Heavy Duty Air Filter
- Lube Oil Heater
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Control Panel

- Auto Control Panel
- Intelligent Remote Control Panel
- Intelligent Paralleling Control Panel
- Buzzer, Space Heater Control Panel

Alternator

- Leroy Somer
- Marathon
- Cooltech
- PMG
- Anti-condensation Heater

ATS

- ATS (G+M)
- ATS (G+G)
- ATS (G+G+M)
- ATS Controller
-

Accessory

- Hybrid Silencer
- Residential Silencer
- Day Tank
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Canopy

- Soundproof (Container/Enclosure)
- Trailer
- Truck/Lighting Truck
- Container Protected
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Spare parts

- | | |
|--|--|
| <input type="checkbox"/> 500h Spare Parts | <input type="checkbox"/> 2000h Spare Parts |
| <input type="checkbox"/> 1000h Spare Parts | <input type="checkbox"/> 3000h Spare Parts |
| <input type="checkbox"/> 1500h Spare Parts | <input type="checkbox"/> |

Warranty

The standard warranty period: One year after ex-work from factory or 1500 operation hours whichever come occurs first.

Please refer to COOLTECH warranty manual for details.

Consumable parts (air filter, fuel filter, lube oil filter, fan belt), this warranty does not apply to malfunctions caused by damage, misuse, repair or service by unauthorized person. Cooltech Global must authorize any and all warranty repairs prior to commencement.

* The model name and output rating figures are base on 400V and may have a 2% deviation
* Specifications subject to change without prior notice



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