



# KP / Series

## Powered by Perkins Engines

### KP300/KP330E Diesel Generating Set

### 50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
300kVA/240kW	330kVA/264kW	2580x1020x1710	2630	6-8h

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

Generating Set Output Rating						
Voltage (V)	Hz	Phase	PF	Max. Current (A)	Prime (kVA/kW)	Standby (kVA/kW)
415/240	50	3	0.8	459	300/240	330/264
400/230	50	3	0.8	476	300/240	330/264
380/220	50	3	0.8	501	300/240	330/264

Engine Technical Data			
Model:	1506A-E88TAG5	Max. Power (kW):	299
Induction System:	Turbo-charged	Displacement (L):	8.8
Cylinder Arrangement:	In Line, Four Cycle	Bore (mm) × Stroke (mm):	112×149
Number of Cylinders:	6	Compression Ratio:	16.1:1
Governor Type:	Electronic	Speed (RPM):	1500

Air System		
Combustion Air Flow (M <sup>3</sup> /min):	Prime: 17	Standby: 18.3

Exhaust System			
Combustion Gas Flow (M <sup>3</sup> /min):	45.1/50	Max. Back Pressure (kPa):	10.0
Exhaust Gas Temperature (°C):	≤574	Exhaust Outlet Size (mm):	102

Lubrication System			
Total Oil Capacity (L):	41	Oil Consumption 100% Load (L/h):	0.061/0.07
Normal Oil Temperature (°C):	115	Recommended Oil:	API CH-4 15W/40

Cooling System			
Cooling System Capacity (L):	33.2	Max. Coolant Temperature (°C):	107
Thermostat Operation Range (°C):	87-98	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M <sup>3</sup> /min):	370	Radiator Power (kW):	8



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## Fuel system

Fuel Injection Pump:	HEUI	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/h):	64.9	Fuel Consumption 110% Load (L/h):	73.1

## Engine Electrical System

Voltage:	24Vdc
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## Alternator Physical Data

Model:	ECO38-2L/4A	Rated Power (kVA):	330
Phase:	3	No. of Bearings:	1
Excitation System:	Self-Excited and Brushless	AVR:	DSR
Connection:	3P 4W, Series 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 <sup>3</sup> /s):	0.533	Efficiency:	93.7%

## 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
- .....
- .....

### Canopy

- Soundproof (Container/Enclosure)
- Trailer
- Truck/Lighting Truck
- Container Protected
- .....

## 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-works 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 warrant 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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