



# KP / Series

## Powered by Perkins Engines

### KP1000/KP1100E Diesel Generating Set

### 50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
1025kVA/820kW	1120kVA/896kW	4680×2050×2400	8143	N/A

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>40°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	1560	1025/820	1120/896
400/230	50	3	0.8	1618	1025/820	1120/896
380/220	50	3	0.8	1578	950/760	1038/830

#### Engine Technical Data

TSL4252, 10-2013

Model:	4008TAG2A	Max. Power (kW):	947
Induction System:	Turbo-charged	Displacement (L):	30.561
Cylinder Arrangement:	In line, Four Cycle	Bore (mm) × Stroke (mm):	160×190
Number of Cylinders:	8	Compression Ratio:	13.6:1
Governor Type:	Electrical	Speed (RPM):	1500

#### Air System

Combustion Air Flow (M <sup>3</sup> /min):	Prime: 75	Standby: 80.5
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#### Exhaust System

Combustion Gas Flow (M <sup>3</sup> /min):	200	Max. Back Pressure (kPa):	8.0
Exhaust Gas Temperature (°C):	≤565	Exhaust Outlet Size (mm):	2×159

#### Lubrication System

Total Oil Capacity (L):	153	Oil Consumption 100% Load (L/h):	0.46/0.5
Normal Oil Temperature (°C):	105	Recommended Oil:	API CF-4 15W/40

#### Cooling System

Cooling System Capacity (L):	143	Max. Coolant Temperature (°C):	101
Thermostat Operation Range (°C):	71-85	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M <sup>3</sup> /min):	1350	Radiator Power (kW):	38



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## Fuel System

Fuel Injection Pump:	Combined Unit Injector	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/h):	215	Fuel Consumption 110% Load (L/h):	240

## Engine Electrical System

Voltage:	24Vdc
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## Alternator Physical Data

Model:	ECO43-1M/4A	Rated Power (kVA):	1120
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
Protection	IP23	Wave form IEC=THF:	<2%
Winding Pitch Code:	2/3	Voltage Regulation:	±1%
Cooling Air (M <sup>3</sup> /s):	1.5	Efficiency:	95.5%

## Option

### Engine

- Jacket Water Heater
- Heavy Duty Air Filter
- 50°C Radiator
- Lube Oil Heater

### Control Panel

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

### Alternator

- Leroy Somer
- Marathon
- Cooltech
- 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 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



Rev 201605

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