



KP / Series

Powered by Perkins Engines

KP2000/KP2250E Diesel Generating Set

50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
2032kVA/1626kW	2268kVA/1814kW	5720×2792×3150	14316	N/A

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) 40°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	3158	2032/1626	2268/1814
400/230	50	3	0.8	3276	2032/1626	2268/1814
380/220	50	3	0.8	3449	2032/1626	2268/1814

Engine Technical Data

Model:	4016-61TRG2	Max. Power (kW):	1895
Induction System:	Turbo-charged	Displacement (L):	61.123
Cylinder Arrangement:	60°V, Four Cycle	Bore (mm) × Stroke (mm):	160×190
Number of Cylinders:	16	Compression Ratio:	13:1
Governor Type:	Electrical	Speed (RPM):	1500

Air System

Combustion Air Flow (M ³ /min):	Prime: 158	Standby: 175
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Exhaust System

Combustion Gas Flow (M ³ /min):	475	Max. Back Pressure (kPa):	4
Exhaust Gas Temperature (°C):	≤489	Exhaust Outlet Size (mm):	2x254

Lubrication System

Total Oil Capacity (L):	214	Oil Consumption 100% Load (L/h):	0.99
Normal Oil Temperature (°C):	105	Recommended Oil:	API CG 15W/40

Cooling System

Cooling System Capacity (L):	552	Max. Coolant Temperature (°C):	98
Thermostat Operation Range (°C):	70-80	Radiator Fan DriveType:	Shaft Drive
Radiator Cooling Air Flow (M ³ /min):	2820	Radiator Power (kW):	90



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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):	414	Fuel Consumption 110% Load (L/h):	463

Engine Electrical System

Voltage:	24Vdc
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Alternator Physical Data

Model:	ECO46-1L/4A	Rated Power (kVA):	2268
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):	2.25	Efficiency:	96.6%

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
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ATS

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



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