



KP / Series

Powered by Perkins Engines

KP500/KP550E Diesel Generating Set

50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
515kVA/412kW	563kVA/451kW	3460×1120×2085	3818	6-8 hr

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℃ Relative Humidity: ≤60%, Altitude: ≤1000m Engine: ISO3046, DIN6271, BS5514 Alternator: VDE0530, BS5000, NEMA MG1-32, IEC34 Generator: ISO8528, GB2820 Generator O&M Manuals

Generating Set Output Rating

Voltage (V)	Hz	Phase	PF	Max. Current (A)	Prime (kVA/kW)	Standby (kVA/kW)
415/240	50	3	0.8	785	515/412	563/451
400/230	50	3	0.8	814	515/412	563/451
380/220	50	3	0.8	857	515/412	563/451

Engine General Data

Model:	2506C-E15TAG2	Max. Power (kW):	478
Induction System:	Turbo-charged	Displacement (L):	15
Cylinder Arrangement:	In Line, Four Cycle	Bore (mm) × Stroke (mm):	137×171
Number of Cylinders:	6	Compression Ratio:	16:1
Governor Type:	Electronic	Speed (RPM):	1500

Air System

Combustion Air Flow (M³/min):	Prime: 35.8	Standby: 36.6
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Exhaust System

Combustion Gas Flow (M³/min):	94/98	Max. Back Pressure (kPa):	6.8
Exhaust Gas Temperature (°C):	≤550	Exhaust Outlet Size (mm):	127

Lubrication System

Total Oil Capacity (L):	62	Oil Consumption 100% Load (L/h):	0.11/0.12
Normal Oil Temperature (°C):	114	Recommended Oil:	API CF-4 15W/40

Cooling System

Cooling System Capacity (L):	58	Max. Coolant Temperature (°C):	107
Thermostat Operation Range (°C):	88-98	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M³/min):	576	Radiator Power (kW):	8.8



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Fuel System

Fuel Injection Pump:	MEUI	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/h):	106	Fuel Consumption 110% Load (L/h):	114

Engine Electrical System

Voltage:	24Vdc
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Alternator Physical Data

Model:	ECO40-1L/4A	Rated Power (kVA):	601
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 (M³/s):	0.9	Efficiency:	94.8%

Option

Engine

- ☐ Jacket Water Heater
- ☐ Heavy Duty Air Filter
- ☐ 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
- ☐ 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 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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