



KP / Series

Powered by Perkins Engines

KP250/KP275E Diesel Generating Set

50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
250kVA/200kW	275kVA/220kW	2580×950×1800	2187	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℃ 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	P.F	Max. Current (A)	Prime (kVA/kW)	Standby (kVA/kW)
415/240	50	3	0.8	383	250/200	275/220
400/230	50	3	0.8	397	250/200	275/220
380/220	50	3	0.8	418	250/200	275/220

Engine Technical Data

TPD1951, 12-2014

Model:	1506A-E88TAG3	Max. Power (kW):	250
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 ³ /min):	Prime: 14.1	Standby: 15
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Exhaust System

Combustion Gas Flow (M ³ /min):	37.5/40.4	Max. Back Pressure (kPa):	10.0
Exhaust Gas Temperature (℃):	≤558	Exhaust Outlet Size (mm):	76

Lubrication System

Total Oil Capacity (L):	41	Oil Consumption 100% Load (L/h):	0.055/0.06
Normal Oil Temperature (℃):	120	Recommended Oil:	API CF-4 15W/40

Cooling System

Cooling System Capacity (L):	37.2	Max. Coolant Temperature (℃):	107
Thermostat Operation Range (℃):	87-98	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M ³ /min):	370	Radiator Power (kW):	8.0



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Fuel System

Fuel Injection Pump:	HEUI	Recommended Fuel:	BS2869:1998 , Class A2 Diesel
Fuel Consumption 100% Load (L/h):	55.5	Fuel Consumption 110% Load (L/h):	60.7

Engine Electrical System

Voltage:	24Vdc
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Alternator Physical Data

Model:	ECO38-1L/4A	Rated Power (kVA):	275
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 (M³/s):	0.533	Efficiency:	93.4%

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 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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