



KP / Series

Powered by Perkins Engines

KP800/KP880E Diesel Generating Set

50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
800kVA/640kW	874kVA/699kW	4000×1710×2210	6105	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, BS4999, NEMA MG1-32, IEC34 Generator: ISO8528, GB2820 Generator O&M Manuals
<ul style="list-style-type: none"> Alternator (Mecc Alte) 50°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	1217	800/640	874/699
400/230	50	3	0.8	1263	800/640	874/699
380/220	50	3	0.8	1329	800/640	874/699

Engine Technical Data				TPD1512, 8-2014
Model:	4006-23TAG3A	Max. Power (kW):	756	
Induction System:	Turbo-charged	Displacement (L):	22.921	
Cylinder Arrangement:	In line, Four Cycle	Bore (mm) × Stroke (mm):	160×190	
Number of Cylinders:	6	Compression Ratio:	13.6:1	
Governor Type:	Electrical	Speed (RPM):	1500	

Air System		
Combustion Air Flow (M ³ /min):	Prime: 69	Standby: 73

Exhaust System			
Combustion Gas Flow (M ³ /min):	193	Max. Back Pressure (kPa):	6.0
Exhaust Gas Temperature (°C):	≤500	Exhaust Outlet Size (mm):	2x159

Lubrication System			
Total Oil Capacity (L):	113.4	Oil consumption 100% load (L/h):	0.43/0.49
Normal Oil Temperature (°C):	113	Recommended Oil:	API CF-4 15W/40

Cooling System			
Cooling System Capacity (L):	105	Max. Coolant Temperature (°C):	98
Thermostat Operation Range (°C):	71-85	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M ³ /min):	875	Radiator Power (kW):	30



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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):	172	Fuel Consumption 110% Load (L/h):	194

Engine Electrical System

Voltage:	24Vdc
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Alternator Physical Data

Model:	ECO43-1S/4A	Rated Power (kVA):	874
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 ³ /s):	1.5	Efficiency:	95.1%

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
- 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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