KP / Series
Powered by Perkins Engines

KP730/KP800E *Diesel Generating Set*   *50Hz*

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
746kVA/597kW	818kVA/655kW	4000×1710×2210	6026	N/A

Standard Configuration

- Engine (Perkins)
- Channel Steel Base
- 24V Charging Alternator
- GE Circuit Breaker
- 24V Starter Battery and Connecting Cable
- Flexible Pipe, Exhaust Elbow, Industrial Silencer, etc.
- Alternator (Mecc Alte)
- 50℃ Radiator
- Air Filter, Diesel Fuel Filter, Lube Oil Filter
- Control Panel

Test Condition and Standards

- 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	1140	746/597	818/655
400/230	50	3	0.8	1183	746/597	818/655
380/220	50	3	0.8	1245	746/597	818/655

Engine Technical Data

Model:	4006-23TAG2A	Max. Power (kW):	691
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: 64	Standby: 71	

Exhaust System

Combustion Gas Flow (M^3/min)：	180	Max. Back Pressure (kPa)：	6.0
Exhaust Gas Temperature (℃)：	≤430	Exhaust Outlet Size (mm):	2x159

Lubrication System

Total Oil Capacity (L):	113.4	Oil Consumption 100% load (L/h):	0.39/0.43
Normal Oil Temperature (℃):	113	Recommended Oil：	API CF-4 15W/40

Cooling System

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

Fuel System

Fuel Injection Pump:	Combined unit injector	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/h)：	187	Fuel Consumption 110% Load (L/h)：	191

Engine Electrical System

Voltage:	24Vdc

Alternator Physical Data

Model:	ECO40-VL/4A	Rated Power (kVA):	825
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):	0.9	Efficiency:	95.1%

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
- □ 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

- □ 500h Spare Parts
- □ 1000h Spare Parts
- □ 1500h Spare Parts
- □ 2000h Spare Parts
- □ 3000h Spare Parts
- □ ……

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