



KP/ Series

Powered by Perkins Engines

KP2250/KP2500E Diesel Generating Set

50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
2300kVA/1840kW	2480kVA/1984kW	5720×2792×3150	16192	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	3454	2300/1840	2480/1984
400/230	50	3	0.8	3584	2300/1840	2480/1984
380/220	50	3	0.8	3772	2300/1840	2480/1984

Engine Technical Data

Model:	4016-61TRG3	Max. Power (kW):	2083
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

Air consumption(M ³ /min):	Prime: 160	Standby: 175
---------------------------------------	------------	--------------

Exhaust System

Combustion Gas Flow (M ³ /min):	525	Max. Back Pressure (kPa):	4.0
Exhaust Gas Temperature (°C):	≤560	Exhaust Outlet Size (mm):	2x273

Lubrication System

Total Oil Capacity (L):	213	Oil Consumption 100% Load (L/h):	1.03/1.2
Normal Oil Temperature (°C):	105	Recommended Oil:	API CF-4 15W/40

Cooling System

Cooling System Capacity (L):	492	Max. Coolant Temperature (°C):	101
Thermostat Operation Range (°C):	71-85	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M ³ /min):	3320	Radiator Power (kW) :	100



KP2250/KP2500E
Powered by Perkins Engines

Fuel System

Fuel Injection Pump:	Combined Unit Injector	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/h):	470	Fuel Consumption 110% Load (L/h):	529

Engine Electrical System

Voltage:	24Vdc
----------	-------

Alternator Physical Data

Model:	ECO46-1.5L/4A	Rated Power (kVA):	2480
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:	96.9%

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
-

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



Rev 201601

KP2250/KP2500E
Powered by Perkins Engines