



KP / Series

Powered by Perkins Engines

KP600/KP660E Diesel Generating Set

50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
610kVA/488kW	668kVA/535kW	3310×1536×2140	4661	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°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) 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	929	610/488	668/535
400/230	50	3	0.8	966	610/488	668/535
380/220	50	3	0.8	1015	610/488	668/535

Engine Technical Data			
Model:	2806C-E18TAG1A	Max. Power (kW):	565
Induction System:	Turbo-charged	Displacement (L):	18.13
Cylinder Arrangement:	In Line, Four Cycle	Bore (mm) × Stroke (mm):	145×183
Number of Cylinders:	6	Compression Ratio:	14.5:1
Governor Type:	Electronic	Speed (RPM):	1500

Air System		
Combustion Air Flow (M ³ /min):	Prime: 40	Standby: 41

Exhaust System			
Combustion Gas Flow (M ³ /min):	110/115	Max. Back Pressure (kPa):	6.9
Exhaust Gas Temperature (°C):	≤565	Exhaust Outlet Size (mm):	219

Lubrication System			
Total Oil Capacity (L):	62	Oil Consumption 100% Load (L/h):	0.13/0.14
Normal Oil Temperature (°C):	113	Recommended Oil:	API CF-4 15W/40

Cooling System			
Cooling System Capacity (L):	61	Max. Coolant Temperature (°C):	103
Thermostat Operation Range (°C):	88-98	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air flow (M ³ /min):	702	Radiator Power (kW):	9.0



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Fuel System

Fuel Injection Pump:	MEUI	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/h):	129	Fuel Consumption 110% Load (L/h):	134

Engine Electrical System

Voltage:	24Vdc
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Alternator Physical Data

Model:	ECO40-1.5L/4A	Rated Power (kVA):	670
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:	94.9%

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
- PMG
- Anti-condensation Heater

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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